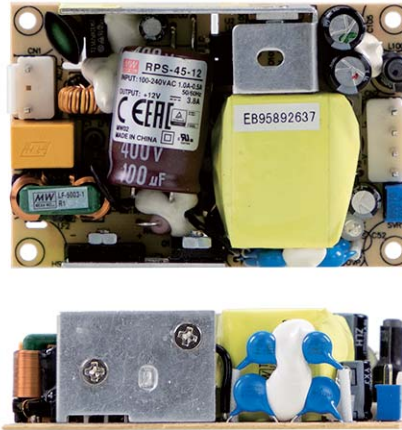




## 45W Reliable Green Medical Power Supply

## RPS-45 series



User's Manual



ANSI/AAMI ES60601-1 BS EN/EN60601-1 IEC60601-1 TPTC004



### ■ Features

- 3"x2" compact size
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1 and IEC/BS EN/EN60601-1
- Suitable for BF application with appropriate system consideration
- Cooling by free air convection
- EMI class B for class II configuration
- No load power consumption < 0.1W
- Extremely low leakage current
- Protections: Short circuit / Overload / Over voltage
- Lifetime > 50K hours
- Operating altitude up to 4000 meters
- 3 years warranty

### ■ Description

RPS-45 is a 45W highly reliable green PCB type medical power supply with a high power density on the 3" by 2" footprint. It accepts 80~264VAC input and offers various output voltages between 3.3V and 48V. The working efficiency is up to 91% and the extremely low no load power consumption is down below 0.1W. RPS-45 is able to be used for Class II (no FG) system design. The extremely low leakage current is less than 100µA. In addition, it conforms to international medical regulations (2\*MOPP) and EMC BS EN/EN55011, perfectly fitting all kinds of BF rated "patient contact" medical system equipment.

### ■ Model Encoding

RPS- 45 - 3.3

Output voltage

Rated wattage

Series name

### ■ Applications

- Oral irrigator
- Hemodialysis machine
- Medical computer monitors
- Sleep apnea devices

### ■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

## SPECIFICATION

| ORDER NO.                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RPS-45-3.3                                                                                                                                                                                          | RPS-45-5                | RPS-45-7.5                                                                               | RPS-45-12  | RPS-45-15  | RPS-45-24                                                                 | RPS-45-48  |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------|------------|------------|---------------------------------------------------------------------------|------------|
| OUTPUT                    | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.3V                                                                                                                                                                                                | 5V                      | 7.5V                                                                                     | 12V        | 15V        | 24V                                                                       | 48V        |
|                           | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8A                                                                                                                                                                                                  | 8A                      | 5.4A                                                                                     | 3.8A       | 3A         | 1.9A                                                                      | 0.94A      |
|                           | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0 ~ 8.8A                                                                                                                                                                                            | 0 ~ 8.8A                | 0 ~ 5.95A                                                                                | 0 ~ 4.18A  | 0 ~ 3.3A   | 0 ~ 2.1A                                                                  | 0 ~ 1.03A  |
|                           | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26.4W                                                                                                                                                                                               | 40W                     | 40.5W                                                                                    | 45.6W      | 45W        | 45.6W                                                                     | 45.1W      |
|                           | PEAK LOAD(10sec.)<br><small>Note.2</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 29W                                                                                                                                                                                                 | 44W                     | 44.6W                                                                                    | 50.2W      | 49.5W      | 50.2W                                                                     | 49.4W      |
|                           | RIPPLE & NOISE (max.)<br><small>Note.3</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60mVp-p                                                                                                                                                                                             | 60mVp-p                 | 80mVp-p                                                                                  | 100mVp-p   | 100mVp-p   | 120mVp-p                                                                  | 120mVp-p   |
|                           | VOLTAGE ADJ. RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.1~3.6V                                                                                                                                                                                            | 4.7~5.5V                | 7.12~8.3V                                                                                | 11.4~13.2V | 13.5~16.5V | 22.8~27.6V                                                                | 45.6~52.8V |
|                           | VOLTAGE TOLERANCE<br><small>Note.4</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ±2.0%                                                                                                                                                                                               | ±2.0%                   | ±2.0%                                                                                    | ±2.0%      | ±1.0%      | ±1.0%                                                                     | ±1.0%      |
|                           | LINE REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ±0.5%                                                                                                                                                                                               | ±0.5%                   | ±0.5%                                                                                    | ±0.5%      | ±0.5%      | ±0.5%                                                                     | ±0.5%      |
|                           | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ±2.0%                                                                                                                                                                                               | ±2.0%                   | ±2.0%                                                                                    | ±2.0%      | ±1.0%      | ±1.0%                                                                     | ±1.0%      |
|                           | SETUP, RISE TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 500ms, 30ms / 230VAC    500ms, 30ms / 115VAC at full load                                                                                                                                           |                         |                                                                                          |            |            |                                                                           |            |
|                           | HOLD UP TIME (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30ms / 230VAC    16ms / 115VAC at full load                                                                                                                                                         |                         |                                                                                          |            |            |                                                                           |            |
| INPUT                     | VOLTAGE RANGE<br><small>Note.5</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 80 ~ 264VAC                                                                                                                                                                                         |                         |                                                                                          |            |            |                                                                           |            |
|                           | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 47 ~ 63Hz                                                                                                                                                                                           |                         |                                                                                          |            |            |                                                                           |            |
|                           | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 80.5%                                                                                                                                                                                               | 83%                     | 85%                                                                                      | 88%        | 89%        | 90%                                                                       | 91%        |
|                           | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.2A / 115VAC    1A / 230VAC                                                                                                                                                                        |                         |                                                                                          |            |            |                                                                           |            |
|                           | INRUSH CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COLD STAR 30A/115VAC    60A/230VAC                                                                                                                                                                  |                         |                                                                                          |            |            |                                                                           |            |
|                           | LEAKAGE CURRENT(max.)<br><small>Note.6</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Touch current< 100μA/264VAC                                                                                                                                                                         |                         |                                                                                          |            |            |                                                                           |            |
| PROTECTION                | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 115 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed                                                                             |                         |                                                                                          |            |            |                                                                           |            |
|                           | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.8~5V                                                                                                                                                                                              | 5.7~6.8V                | 8.6~11.3V                                                                                | 13.8~16.2V | 17.2~20.3V | 28.4~32.4V                                                                | 55.2~64.8V |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Protection type : Shut down o/p voltage, re-power on to recover                                                                                                                                     |                         |                                                                                          |            |            |                                                                           |            |
| ENVIRONMENT               | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -30 ~ +70℃ (Refer to "Derating Curve")                                                                                                                                                              |                         |                                                                                          |            |            |                                                                           |            |
|                           | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20% ~ 90% RH non-condensing                                                                                                                                                                         |                         |                                                                                          |            |            |                                                                           |            |
|                           | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -40 ~ +85℃, 10 ~ 95% RH non-condensing                                                                                                                                                              |                         |                                                                                          |            |            |                                                                           |            |
|                           | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ±0.03% / °C (0 ~ 50℃)                                                                                                                                                                               |                         |                                                                                          |            |            |                                                                           |            |
|                           | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                             |                         |                                                                                          |            |            |                                                                           |            |
|                           | OPERATING ALTITUDE<br><small>Note.7</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4000 meters                                                                                                                                                                                         |                         |                                                                                          |            |            |                                                                           |            |
| SAFETY & EMC<br>(Note. 8) | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | IEC 60601-1:2005+A1+A2, TUV BS EN/ EN 60601-1:2006+A1+A12+A2, ANSI/AAMI ES60601-1:2005+A2<br>CAN/CSA C22.2 No. 60601-1:2014+A2, EAC TP TC 004 approved; Design refer to BS EN/EN60335-1(by request) |                         |                                                                                          |            |            |                                                                           |            |
|                           | ISOLATION LEVEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Primary-Secondary: 2xMOPP                                                                                                                                                                           |                         |                                                                                          |            |            |                                                                           |            |
|                           | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | I/P-O/P: 4KVAC                                                                                                                                                                                      |                         |                                                                                          |            |            |                                                                           |            |
|                           | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH                                                                                                                                                           |                         |                                                                                          |            |            |                                                                           |            |
|                           | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Parameter                                                                                                                                                                                           | Standard                |                                                                                          |            |            | Test Level / Note                                                         |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Conducted emission                                                                                                                                                                                  | BS EN/EN55011 (CISPR11) |                                                                                          |            |            | Class B                                                                   |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Radiated emission                                                                                                                                                                                   | BS EN/EN55011 (CISPR11) |                                                                                          |            |            | Class B                                                                   |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Harmonic current                                                                                                                                                                                    | BS EN/EN61000-3-2       |                                                                                          |            |            | Class A                                                                   |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Voltage flicker                                                                                                                                                                                     | BS EN/EN61000-3-3       |                                                                                          |            |            | -----                                                                     |            |
|                           | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BS EN/EN55035, BS EN/EN60601-1-2                                                                                                                                                                    |                         |                                                                                          |            |            |                                                                           |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Parameter                                                                                                                                                                                           | Standard                |                                                                                          |            |            | Test Level / Note                                                         |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ESD                                                                                                                                                                                                 | BS EN/EN61000-4-2       |                                                                                          |            |            | Level 4, 15KV air ; Level 4, 8KV contact                                  |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RF field susceptibility                                                                                                                                                                             | BS EN/EN61000-4-3       |                                                                                          |            |            | Level 3, 10V/m( 80MHz~2.7GHz )<br>Table 9, 9~28V/m( 385MHz~5.78GHz )      |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EFT bursts                                                                                                                                                                                          | BS EN/EN61000-4-4       |                                                                                          |            |            | Level 3, 2KV                                                              |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Surge susceptibility                                                                                                                                                                                | BS EN/EN61000-4-5       |                                                                                          |            |            | Level 4, 2KV/Line-Line                                                    |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Conducted susceptibility                                                                                                                                                                            | BS EN/EN61000-4-6       |                                                                                          |            |            | Level 3, 10V                                                              |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Magnetic field immunity                                                                                                                                                                             | BS EN/EN61000-4-8       |                                                                                          |            |            | Level 4, 30A/m                                                            |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Voltage dip, interruption                                                                                                                                                                           | BS EN/EN61000-4-11      |                                                                                          |            |            | 100% dip 1 periods, 30% dip 25 periods,<br>100% interruptions 250 periods |            |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OTHERS                                                                                                                                                                                              | MTBF                    | 3334.3K hrs min.    Telcordia SR-332 (Bellcore) ; 726.2K hrs min.    MIL-HDBK-217F (25℃) |            |            |                                                                           |            |
| DIMENSION (L*W*H)         | 76.2*50.8*24mm or 3" * 2" *0.945" inch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                     |                         |                                                                                          |            |            |                                                                           |            |
| PACKING                   | 0.11Kg; 120pcs/14.2Kg/0.94CUFT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                     |                         |                                                                                          |            |            |                                                                           |            |
| NOTE                      | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.<br>2. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.<br>3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor.<br>4. Tolerance : includes set up tolerance, line regulation and load regulation.<br>5. Derating may be needed under low input voltages. Please check the derating curve for more details.<br>6. Touch current was measured from primary input to DC output.<br>7. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).<br>8. The power supply is considered a component which will be installed into a final equipment. "All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness." The final equipment must be re-confirmed that it still meets EMC directives.<br>For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."<br>(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                                                                                                                                     |                         |                                                                                          |            |            |                                                                           |            |

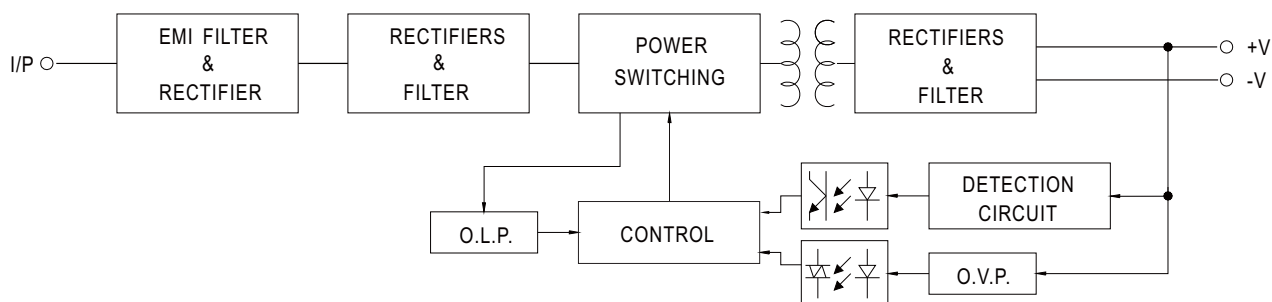


## 45W Reliable Green Medical Power Supply

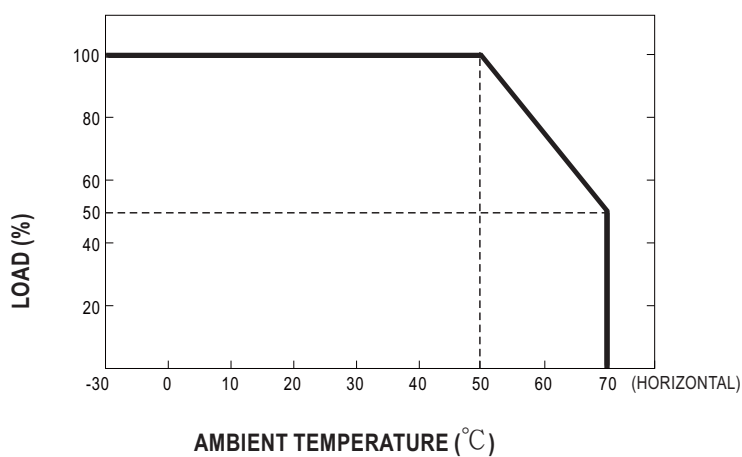
## RPS-45 series

### Block Diagram

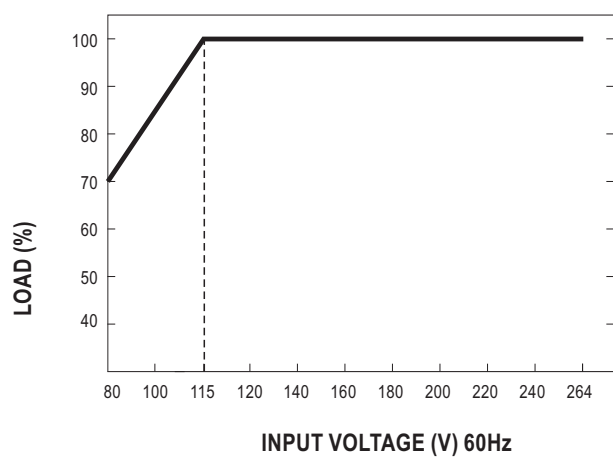
fosc : 65KHz



### Derating Curve



### Static Characteristics



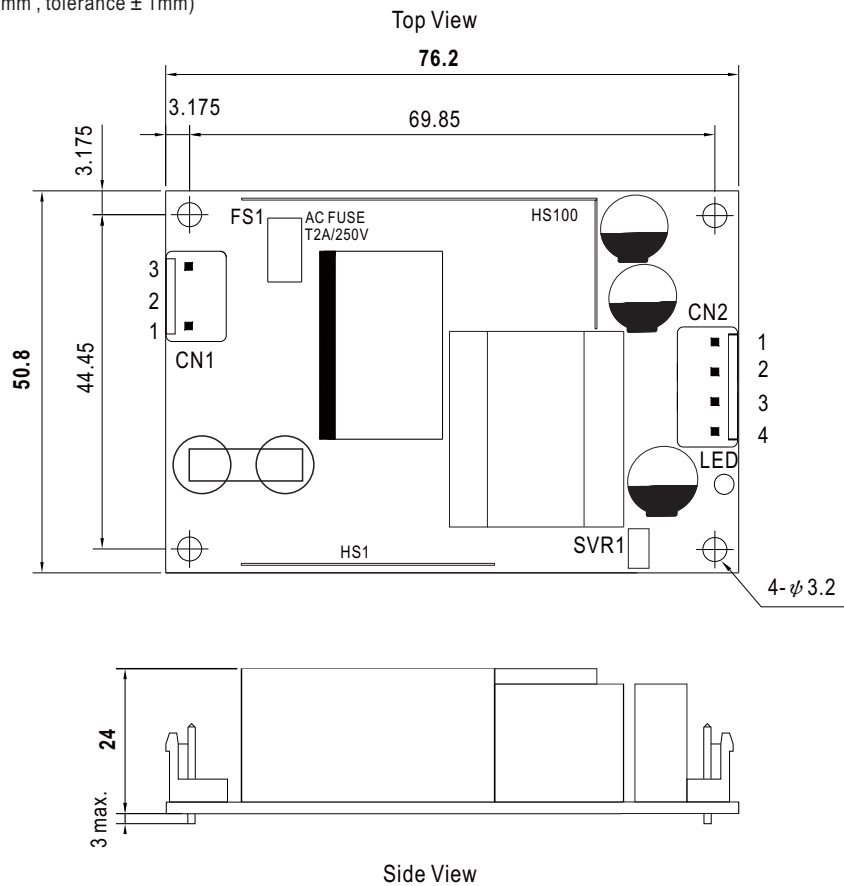


## 45W Reliable Green Medical Power Supply

# RPS-45 series

### Mechanical Specification

(Unit: mm , tolerance  $\pm 1$  mm)



AC Input Connector (CN1) : JST B3P-VH or equivalent

| Pin No. | Assignment | Mating Housing           | Terminal                          |
|---------|------------|--------------------------|-----------------------------------|
| 1       | AC/N       | JST VHR<br>or equivalent | JST SVH-21T-P1.1<br>or equivalent |
| 2       | No Pin     |                          |                                   |
| 3       | AC/L       |                          |                                   |

DC Output Connector (CN2) : JST B4P-VH or equivalent

| Pin No. | Assignment | Mating Housing           | Terminal                          |
|---------|------------|--------------------------|-----------------------------------|
| 1       | +V         | JST VHR<br>or equivalent | JST SVH-21T-P1.1<br>or equivalent |
| 2       | +V         |                          |                                   |
| 3       | -V         |                          |                                   |
| 4       | -V         |                          |                                   |

### Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>