

## 10W DC-DC Regulated Single Output Converter

# SKE10 series



- Features :

- 2:1 wide input range
- 4:1 wide input range(option)
- 1500VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / EAC / CE / UKCA
- 2 years warranty

## GTIN CODE

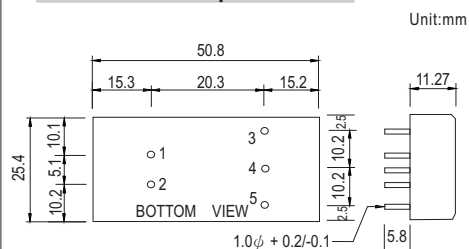
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



## SPECIFICATION

| ORDER NO.            |                              | SKE10A-05                                                                                                                        | SKE10B-05                   | SKE10C-05 | SKE10A-12  | SKE10B-12 | SKE10C-12 | SKE10A-15    | SKE10B-15 | SKE10C-15 | SKE10A-24  | SKE10B-24 | SKE10C-24 |
|----------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|------------|-----------|-----------|--------------|-----------|-----------|------------|-----------|-----------|
| OUTPUT               | DC VOLTAGE                   | 5V                                                                                                                               |                             |           | 12V        |           |           | 15V          |           |           | 24V        |           |           |
|                      | CURRENT RANGE                | 200 ~ 2000mA                                                                                                                     |                             |           | 84 ~ 840mA |           |           | 66.6 ~ 666mA |           |           | 42 ~ 420mA |           |           |
|                      | RATED POWER                  | 10W                                                                                                                              |                             |           |            |           |           |              |           |           |            |           |           |
|                      | RIPPLE & NOISE (max.) Note.2 | 50mVp-p                                                                                                                          |                             |           | 60mVp-p    |           |           | 60mVp-p      |           |           | 80mVp-p    |           |           |
|                      | LINE REGULATION Note.3       | ±0.3%                                                                                                                            |                             |           |            |           |           |              |           |           |            |           |           |
|                      | LOAD REGULATION Note.4       | ±0.5%                                                                                                                            |                             |           |            |           |           |              |           |           |            |           |           |
|                      | VOLTAGE ACCURACY             | ±2.0%                                                                                                                            |                             |           |            |           |           |              |           |           |            |           |           |
|                      | SWITCHING FREQUENCY          | 200KHz min.                                                                                                                      |                             |           |            |           |           |              |           |           |            |           |           |
| INPUT                | VOLTAGE RANGE                | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC                                                                                         |                             |           |            |           |           |              |           |           |            |           |           |
|                      | EFFICIENCY (Typ.)            | 78%                                                                                                                              | 79%                         | 80%       | 79%        | 81%       | 81%       | 80%          | 82%       | 82%       | 81%        | 82%       | 83%       |
|                      | DC CURRENT                   | Full load                                                                                                                        | A: 1100mA B: 530mA C: 270mA |           |            |           |           |              |           |           |            |           |           |
|                      |                              | No load                                                                                                                          | A: 28mA B: 16mA C: 8mA      |           |            |           |           |              |           |           |            |           |           |
|                      | FILTER                       | Pi network                                                                                                                       |                             |           |            |           |           |              |           |           |            |           |           |
| PROTECTION (Note. 5) | OVER CURRENT                 | 160% ~ 250% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed         |                             |           |            |           |           |              |           |           |            |           |           |
|                      | SHORT CIRCUIT                | All output equipped with short circuit<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |                             |           |            |           |           |              |           |           |            |           |           |
| ENVIRONMENT          | WORKING TEMP.                | -25 ~ +71℃ (Refer to "Derating Curve")                                                                                           |                             |           |            |           |           |              |           |           |            |           |           |
|                      | WORKING HUMIDITY             | 20% ~ 90% RH non-condensing                                                                                                      |                             |           |            |           |           |              |           |           |            |           |           |
|                      | STORAGE TEMP., HUMIDITY      | -25 ~ +105℃, 10 ~ 95% RH                                                                                                         |                             |           |            |           |           |              |           |           |            |           |           |
|                      | TEMP. COEFFICIENT            | ±0.03% / ℃ (0 ~ 50℃)                                                                                                             |                             |           |            |           |           |              |           |           |            |           |           |
|                      | VIBRATION                    | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                          |                             |           |            |           |           |              |           |           |            |           |           |
| SAFETY & EMC         | SAFETY STANDARDS             | EAC TP TC 020/2011 approved                                                                                                      |                             |           |            |           |           |              |           |           |            |           |           |
|                      | WITHSTAND VOLTAGE            | I/P-O/P: 1.5KVDC                                                                                                                 |                             |           |            |           |           |              |           |           |            |           |           |
|                      | ISOLATION RESISTANCE         | I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH                                                                                       |                             |           |            |           |           |              |           |           |            |           |           |
|                      | EMC EMISSION                 | Compliance to BS EN/EN55032 Class A, FCC part 15 Class A, EAC TP TC 020                                                          |                             |           |            |           |           |              |           |           |            |           |           |
|                      | EMC IMMUNITY                 | Compliance to BS EN/EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020                                       |                             |           |            |           |           |              |           |           |            |           |           |
| OTHERS               | MTBF                         | 500Khrs min. MIL-HDBK-217F(25℃)                                                                                                  |                             |           |            |           |           |              |           |           |            |           |           |
|                      | DIMENSION                    | 50.8*25.4*11.2mm or 2"*1"*0.44" inch (L*W*H)                                                                                     |                             |           |            |           |           |              |           |           |            |           |           |
|                      | PACKING                      | 31.2g ; 10pcs/per tube, 400pcs/40 tube/per carton                                                                                |                             |           |            |           |           |              |           |           |            |           |           |

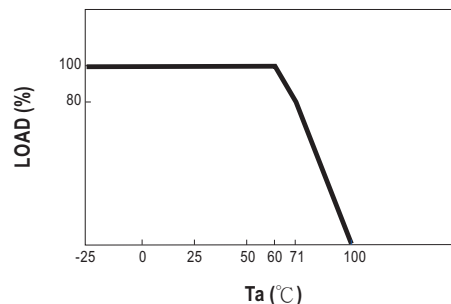
## ■ Mechanical Specification



## ■ Pin Configuration

| Pin no. | Output<br>Single |
|---------|------------------|
| 1       | +Vin             |
| 2       | -Vin             |
| 3       | +Vout            |
| 4       | No Pin           |
| 5       | -Vout            |

### Derating Curve



### NOTE

- 1.All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
  - 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
  - 3.Line regulation is measured from low line to high line at rated load.
  - 4.Load regulation is measured from 10% to 100% rated load.
  - 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.
- ※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>



## 10W DC-DC Regulated Single Output Converter

**SKE10** series

## ■ Packing

| Standard Tube Packing                                                     | MPQ<br>Per Tube<br>(PCS) | One Tube<br>G.W. | Max. Q'TY/<br>Carton(PCS) | One Carton<br>G.W. |
|---------------------------------------------------------------------------|--------------------------|------------------|---------------------------|--------------------|
| <p>Unit : mm</p> <p>Tube pattern</p> <p>CARTON<br/>L600 x W230 x H220</p> | 10                       | 400g             | 400                       | 16.8Kg             |

## ■ Installation Manual

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