

DRA-40 series







■ Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Can be installed on DIN rail TS-35/7.5 or 15
- Output Voltage adjustable through internal potentiometer
- Output Current adjustable through external 1~10Vdc, PWM signal or resistance
- · Cooling by free air convection
- · Pass LPS
- · LED indicator for power on
- · 100% full load burn-in test
- 3 years warranty

Applications

- · Machine vision inspection system
- · Plant cultivation system

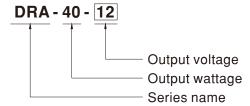
■ GTIN CODE

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

Description

DRA-40 is one 40W AC/DC DIN rail power supply, featuring the adjustable output current. Users are able to easily change the constant output current level, via $1\sim10$ Vdc, PWM signal or resistance. DRA-40 can be mounted on DIN rail TS-35/7.5 or 15; in addition, the width of the unit is only 40mm that it is well suited for the installation in a limited spacing. DRA-40 accepts the universal AC input between 90VAC and 264VAC; the efficiency is up to 87% that the entire series can operate, under free air convection, from -30°C through 70°C.

■ Model Encoding





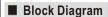
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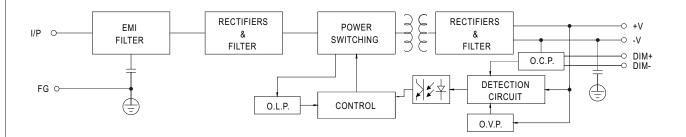
SPECIFICATION

MODEL		DRA-40-12	DRA-40-24								
	DC VOLTAGE	12V	24V								
	CONSTANT CURRENT REGION	3~12V	3~24V								
	RATED CURRENT	3.34A	1.7A								
	CURRENT RANGE	0 ~ 3.34A	0 ~ 1.7A								
	RATED POWER	40.08W	40.8W								
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p								
OUTPUT	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 30V								
	VOLTAGE TOLERANCE Note.3	±1.0%	土1.0%								
	LINE REGULATION	±0.5%	±0.5%								
	LOAD REGULATION	±0.5%	±0.5%								
	SETUP, RISE TIME Note.4	400ms, 90ms/230VAC 800ms, 90ms/115VAC at full	load								
	HOLD UP TIME (Typ.)	50ms/230VAC 10ms/115VAC at full load									
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC [DC input operation p	possible by connecting AC/L(+), AC/N(-)]								
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT	EFFICIENCY (Typ.)	85%	87%								
	AC CURRENT (Typ.)	0.8A/115VAC 0.6A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC									
	OVERLOAD	95 ~ 108% rated output power									
PROTECTION	OVEREDAD	Protection type: Constant current limiting, recovers autor	-								
	OVER VOLTAGE	14.49 ~ 18.63V 28.98 ~ 37.26V									
		Protection type : Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT	$\pm 0.03\%$ °C (0 ~ 55 °C) on output									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z									
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved									
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
(Note 5)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
. ,	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020									
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61204-3, light industry level, criteria A, EAC TP TC 020									
	MTBF	2940.7K hrs min. Telcordia SR-332 (Bellcore) ; 439.3K hrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	40*90*100mm (W*H*D)	,								
	PACKING	0.3Kg; 42pcs/13.6Kg/0.82CUFT									
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										



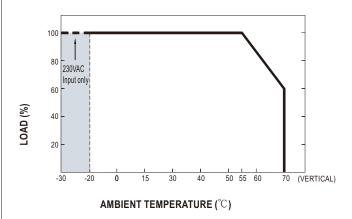
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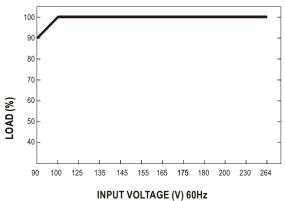




■ Derating Curve

■ Static Characteristics





■ OUTPUT CURRENT ADJUSTMENT OPERATION

- ※ Please DO NOT connect "DIM-" to "-V".
- ※ Reference resistance value for output current adjustment (Typical)

Resistance value	Single Power supply	10K Ω	20ΚΩ	30K Ω	40K Ω	50K Ω	60KΩ	70K Ω	80KΩ	90ΚΩ	100KΩ	OPEN
	Multiple Power supplies	10KΩ/N	20K Ω/N	30KΩ/N	40KΩ/N	50K Ω /N	60KΩ/N	70KΩ/N	80K Ω /N	90K Ω/N	100KΩ/N	
Percentage of rated current		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

Applied Source	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

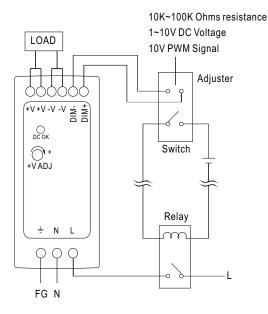
% 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KHz

Duty value	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%



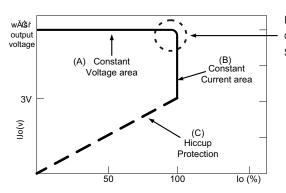
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**Using the current adjustment function can not adjust the output current to 0A. Please refer to the connection method below to adjust the output current to 0A.



■ DRIVING METHODS OF APPLICATIONS

The power supply may either work in "constant voltage mode or constant current mode"



In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

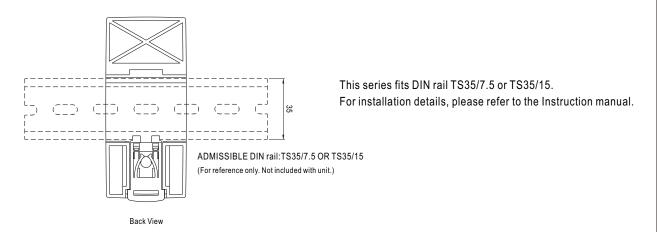
Should there be any compatibility issues, please contact MEAN WELL.



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Mechanical Specification Case No.962A Unitrum

■ Installation Instruction



■ Installation Manual

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