

DRA-60 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

Description

DRA-60 is one 60W AC/DC DIN rail power supply, featuring the adjustable output current. Users are able to easily change the constant output current level, via $1 \sim 10$ Vdc, PWM signal or resistance. DRA-60 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-60 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.



Applications

- Machine vision inspection system
- Plant cultivation system

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



SPECIFICATION

| MODEL | | DRA-60-12 | DRA-60-24 | |
|-----------------------------|--|---|---|--|
| OUTPUT | DC VOLTAGE | 12V | 24V | |
| | CONSTANT CURRENT REGION | 3 ~ 12V | 3 ~ 24V | |
| | RATED CURRENT | 5A | 2.5A | |
| | CURRENT RANGE | 0~5A | 0~2.5A | |
| | RATED POWER | 60W | 60W | |
| | RIPPLE & NOISE (max.) Note.2 | 120mVp-p | 150mVp-p | |
| | VOLTAGE ADJ. RANGE | 12 ~ 15V | 24 ~ 30V | |
| | VOLTAGE TOLERANCE Note.3 | ±1.0% | ±1.0% | |
| | LINE REGULATION | ±0.5% | ±0.5% | |
| | LOAD REGULATION | ±0.5% | ±0.5% | |
| | SETUP, RISE TIME Note.4 | 4 400ms, 90ms/230VAC 800ms, 90ms/115VAC at full load | | |
| | HOLD UP TIME (Typ.) | 50ms/230VAC 10ms/115VAC at full load | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/L(+), AC/N(-)] | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | |
| | EFFICIENCY (Typ.) | 85% | 87% | |
| | AC CURRENT (Typ.) | 1.3A/115VAC 0.8A/230VAC | | |
| | INRUSH CURRENT (Typ.) | COLD START 30A/115VAC 60A/230VAC | | |
| PROTECTION | OVERLOAD | 95 ~ 108% rated output power | | |
| | | Protection type : Constant current limiting, recovers auto | matically after fault condition is removed | |
| | OVER VOLTAGE | 14.49 ~ 18.63V | 28.98 ~ 37.26V | |
| | | Protection type : Shut down o/p voltage, re-power on to recover | | |
| ENVIRONMENT | WORKING TEMP. | -30 ~ +70°C (Refer to "Derating Curve") | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | |
| | TEMP. COEFFICIENT | \pm 0.03%/°C (0 ~ 50°C) on output | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | |
| SAFETY & EMC (Note 5) | SAFETY STANDARDS | UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | | |
| | 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 | | |
| OTHERS | MTBF | 2930.8K hrs min. Telcordia SR-332 (Bellcore) ; 436.4k | 2930.8K hrs min. Telcordia SR-332 (Bellcore) ; 436.4K hrs min. MIL-HDBK-217F (25°C) | |
| | 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 highe than 2000m(6500ft). Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | |



60W Single Output Switching Power Supply

DRA-60 series





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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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