

DMV-60 series

60W Single Output Switching Power Supply(CV+CC) with PFC Function



■ Features:

- Constant voltage design
- Built-in active PFC function, PFC > 0.9
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Cooling by free air convection
- Class 2 power unit, Isolation class II
- IP54 design

IP54 Class 2

ELECTRICAL SPECIFICATION

MODEL	DMV-60-12
OUTPUT	
DC VOLTAGE	12V
RATED CURRENT	5A
RATED POWER	60W
LINE REGULATION	± 1%
LOAD REGULATION	± 2%
VOLTAGE TOLERANCE [3]	± 5%
RIPPLE & NOISE (max.) [2]	600mV _{p-p}
INPUT	
VOLTAGE RANGE	90 ÷ 277VAC; 127 ÷ 390VDC
FREQUENCY RANGE	47 ÷ 63Hz
EFFICIENCY (typ.)	80%
AC CURRENT (typ.)	0.9A/115VAC, 0.5A / 230VAC
POWER FACTOR	PF > 0.9 / 230VAC; PF > 0.95 / 115VAC at full load
PROTECTIONS	
OVER CURRENT	Range: 100 ÷ 120% rated current Type: U _{out} = 6 ÷ 12V: constant current limiting; U _{out} < 6V: hiccup mode, auto-recovery.
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.
OVER VOLTAGE	Max. 20V Type: shut down output voltage. Re-power on to recovery.
WORKING ENVIRONMENT	
WORKING TEMPERATURE	-30°C ÷ 60°C
WORKING HUMIDITY	20 ÷ 95% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 80°C, 10 ÷ 95% RH non-condensing

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SAFETY AND EMC REGULATIONS

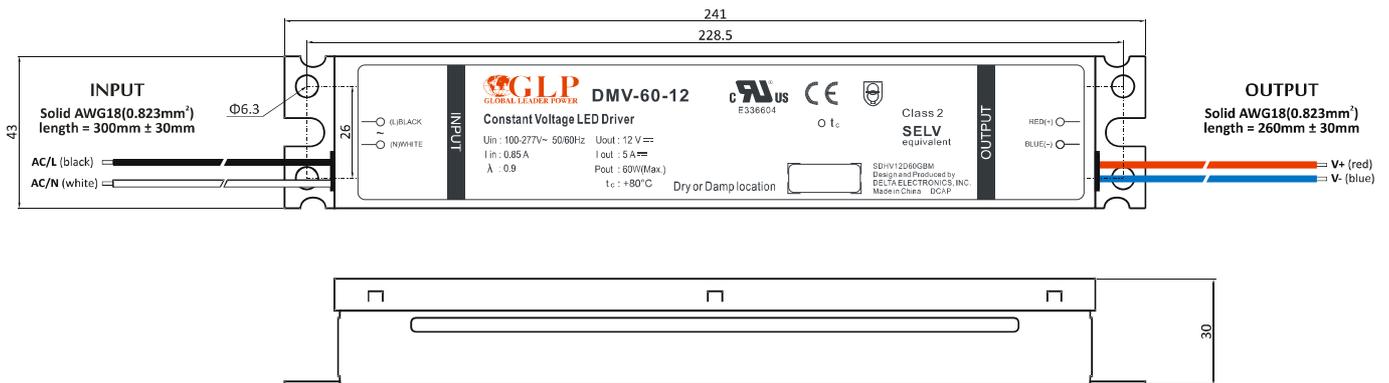
SAFETY STANDARDS	Compliance to EN 61347-1, EN 61347-2-13, UL 8750
WITHSTAND VOLTAGE	I-P/O-P: 3.75kVAC; I-P/GND: 1.5kVAC; O-P/GND: 0.5kVAC
ISOLATION RESISTANCE	I-P/O-P, I-P/GND, O-P/GND: 100MΩ/500VDC/25°C/70%
EMC EMISSION	Compliance to EN 55015
EMC IMMUNITY	Compliance to EN 61547; IEC 61000-4-2, -3, -4, -5, -6, -8, -11
HARMONIC CURRENT	Compliance z EN61000-3-3; EN61000-3-2 class C (≥ 50% load)

OTHERS

MTBF	975 000 h, Telcordia SR-332 (40°C)
DIMENSIONS	241 x 43 x 30mm (L x W x H)
WEIGHT	0.64kg

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment must be re-qualify to comply with EMC Directives.

MECHANICAL SPECIFICATION



CONSTANT VOLTAGE + CONSTANT CURRENT MODE OPERATION

