DMV-80D-24 series

80W PWM output LED Power supply with dimming 2 in 1 function





Features:

- Constant voltage PWM style output (330Hz)
- Built-in active PFC function
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Built-in 2 in 1 dimming function (voltage / resistance)
- Cooling by free air convection
- Class 2 power unit
- IP54 design



ELECTRICAL SPECIFICATION

MODEL	DMV-80D-24
OUTPUT	
RATED VOLTAGE	24V
RATED CURRENT	3.3A
RATED POWER	80W
TOLERANCE [3]	± 5%
FREQUENCY (typ.)	330Hz
RIPPLE & NOISE (max.) [2]	300mV _{P-P}
INPUT	
VOLTAGE RANGE	90 ÷ 277VAC; 127 ÷ 390VDC
FREQUENCY RANGE	47 ÷ 63Hz
EFFICIENCY (typ.)	85%
AC CURRENT (typ.)	1.1A/115VAC, 0.6A / 230VAC
POWER FACTOR	PF > 0.9 / 230VAC; PF > 0.9 / 115VAC at full load
PROTECTIONS	
OVER CURRENT	Range: 95 ÷ 120% rated current
	Type: shut down output voltage. Re-power on to recovery.
SHORT CIRCUIT	Type: hiccup mode, auto-recovery.
OVER VOLTAGE	Max. 32V
	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
OTHERS	
LIFETIME	50 000 h (40°C)
MTBF	975 000 h, Telcordia SR-332 (40°C)
DIMENSIONS	241 x 43 x 30mm (L x W x H)
WEIGHT	0.62kg

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 incudes 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







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DIMMING FUNCTION

For use dimming function connect dimmer to DIM+ and DIM- terminals. Dimming effect is achieved by changing duty of output PWM style in 0%÷100% range. You can use dimming function by one of two ways:

1. By variable resistance $0k\Omega \div 75k\Omega$.



2. By variable DC voltage 1÷10V.





Comp	atible dimmers
•	OSRAM DIM MCU
•	BERKER 2891 10
•	Other 1-10V dimmers