VOLTAGE
24V

CURRENT
2.5A

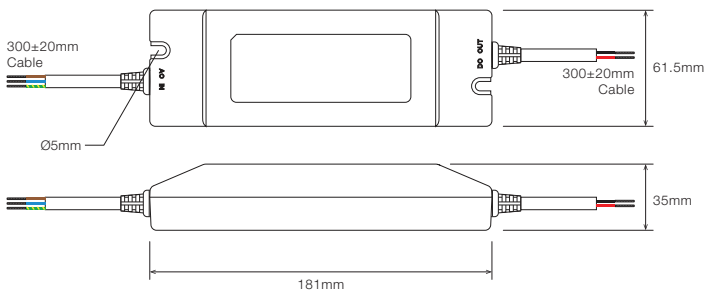
POWER
60W

Mean Well 60W Single Output LED Power Supply

FEATURES

- Universal AC input / Full range (up to 295VAC)
- High efficiency 89%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit with adjustable OCP level
- Fully isolated plastic case with IP64 design for indoor or outdoor installations
- Built-in active PFC function
- Pass LPS
- Class II power unit
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- Suitable for dry / damp locations
- Compliance to worldwide safety regulations for lighting
- 2 years warranty

DIMENSIONS



TECHNICAL SPECIFICATIONS

Model		PLN-60-12	PLN-60-15	PLN-60-20	PLN-60-24	PLN-60-27	PLN-60-36	PLN-60-48
Output	DC Voltage	12V	15V	20V	24V	27V	36V	48V
	Constant Current Region [6]	8.4 ~ 12V	10.5 ~ 15V	14 ~ 20V	16.8 ~ 24V	18.9 ~ 27V	25.2 ~ 36V	33.6 ~ 48V
	Rated Current	5A	4A	3A	2.5A	2.3A	1.7A	1.3A
	Current Range	0 ~ 5A	0 ~ 4A	0 ~ 3A	0 ~ 2.5A	0 ~ 2.3A	0 ~ 1.7A	0 ~ 1.3A
	Rated Power	60W	60W	60W	60W	62.1W	62.1W	62.4W
	Ripple & Noise (max.) [2]	2Vp-p	2.4Vp-p	1.8Vp-p	2.7Vp-p	2.7Vp-p	3.6Vp-p	4.6Vp-p
	Voltage Adj. Range [5]	11.5 ~ 13V	14.5 ~ 16.2V	19.5 ~ 22V	24 ~ 26V	25 ~ 30V	32.5 ~ 39V	43.6 ~ 51.8V
		Can be adjusted by internal potentiometer SVR1						
	Current Adj. Range [5]	3% ~ -25%. Can be adjusted by internal potentiometer SVR2						
	Voltage Tolerance [3]	±10%						
	Line Regulation	±3.0%						
	Load Regulation	±5.0%						
	Setup Time	500ms / 230VAC		3000ms / 115VAC at full load				
Input	Voltage Range [4]	90 ~ 295VAC		127 ~ 417VDC				
	Frequency Range	47 ~ 63Hz						
	Power Factor (typ.)	PF>0.92/115VAC, PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)						
	Efficiency (Typ.)	85%	86%	87.5%	87%	88%	89%	89%
	AC Current (Typ.)	0.8A/115VAC 0.4A/230VAC 0.3A/277VAC						
	Inrush Current (Typ.)	COLD START 35A (twidth=45μs measured at 50% Ipeak) at 230VAC						
	Leakage Current	<0.75mA / 240VAC						
Protection	Over Current [4]	95 ~ 110%						
		Protection type : Constant current limiting, recovers automatically after fault condition is removed						
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed						
	Over Voltage	13.8 ~ 16V	17.5 ~ 21V	23 ~ 28V	28 ~ 32V	31 ~ 35V	41 ~ 46V	54 ~ 60V
		Protection type : Shut down o/p voltage, re-power on to recover						
	Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down						
Environment	Working Temp.	-30 ~ +50°C (Refer to "Derating Curve")						
	Working Humidity	20 ~ 95% RH non-condensing						
	Storage Temp., Humidity	-40 ~ +80°C, 10 ~ 95% RH						
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)						
	Vibration	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes						
Safety & EMC	Safety Standards	UL879, UL1310, UL8750, CSA C22.2 No. 207-M89(except for 48V), TUV EN61347-1, EN61347-2-13 independent, CAN/CSA C22.2 No. 223-M91(except for 48V), CSA C22.2 No. 250.0-08(except for 48V), IP64, J61347-1, J61347-2-13 approved ; design refer to UL60950-1						
	Withstand Voltage	I/P-O/P:3.75KVAC		I/P-FG:2KVAC		O/P-FG:0.5KVAC		
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
	EMC Emission	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (>75% load) ; EN61000-3-3						
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024,EN61547, light industry level, criteria A						
Others	MTBF	497.8Khrs min.		MIL-HDBK-217F (25°C)				
	Dimension (LxWxH)	181 x 61.5 x 35mm						
	Packing	0.5Kg; 24pcs / 13Kg / 0.75cu.ft						

[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 0.1uf & 47uf parallel capacitor.
[3] Tolerance : includes set up tolerance, line regulation and load regulation.
[4] Derating may be needed under low input voltages. Please check the static characteristics in Meanwell's specification sheet for more details.
[5] Output voltage can be adjusted through the SVR1 on the PCB; limit of output constant current level can be adjusted through the SVR2 on the PCB.
[6] Please refer to "DRIVING METHODS OF LED MODULE" in Meanwell's specification sheet.
[7] The power supply is considered as a component that will be operated in combinationwith final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
[8] Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
[9] To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

ORDERING EXAMPLE

PWR-PLN60-24

IP64 rated