

voltage current power 24V 1.25A 30W

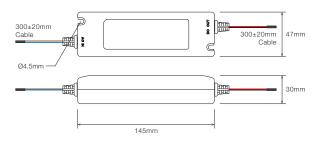
Mean Well 30W Single Output LED Power Supply

FEATURES

- Universal AC input / Full range (up to 295VAC)
- 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, no FG
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- 2 years warranty

DIMENSIONS





TECHNICAL SPECIFICATIONS

Model		PLN-30-9	PLN-30-12	PLN-30-15	PLN-30-20	PLN-30-24	PLN-30-27	PLN-30-36	PLN-30-48	
	DC Voltage	9V	12V	15V	20V	24V	27V	36V	48V	
	Constant Current Region ⁶	6.3 ~ 9V	8.4 ~ 12V	10.5 ~ 15V	14 ~ 20V	16.8 ~ 24V	18.9 ~ 27V	25.2 ~ 36V	33.6 ~ 48V	
	Rated Current	3.3A	2.5A	2A	1.5A	1.25A	1.12A	0.84A	0.63A	
	Current Range	0 ~ 3.3A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.5A	0 ~ 1.25A	0 ~ 1.12A	0 ~ 0.84A	0 ~ 0.63A	
	Rated Power	29.7W	30W	30W	30W	30W	30.24W	30.24W	30.24W	
Output	Ripple & Noise (max.) ²	2.6Vp-p	2Vp-p	2.6Vp-p	2.6Vp-p	2.6Vp-p	2.3Vp-p	4.5Vp-p	3.7Vp-p	
	Voltage Adj. Range ⁵	-5% ~ 10%. 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 / 115V/	3000ms / 115VAC at full load					
Input	Voltage Range 4	90 ~ 295VAC		127 ~ 417VDC	127 ~ 417VDC					
	Frequency Range	47 ~ 63Hz								
	Power Factor (typ.)	PF>0.95/115VAC, PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)								
	Total Harmonic Distortion	THD< 20% when output loading ≥ 75% at 115VAC/230VAC input and output loading ≥ 80% at 277VAC input								
	Efficiency (Typ.)	80%	82.5%	83.5%	84%	84%	84.5%	85%	85.5%	
	AC Current (Typ.)	0.4A/115VAC	0.2A/230VAC	0.15A/277VAC						
	Inrush Current (Typ.)	COLD START 35A (twidth=25µs measured at 50% Ipeak) at 230VAC								
	Max No. of PSUs on 16A Circuit Breaker	64 units (circuit breaker of type B) / 64 units (circuit breaker of type C) at 230VAC								
	Leakage Current	<0.5mA / 240VAC								
Protection		100 ~ 110%								
	Over Current 4	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	10 ~ 14V Protection type :	14 ~ 17V Shut down o/p volta	17 ~ 22V age, re-power on to	23 ~ 26V recover	27 ~ 34V	31 ~ 35V	40 ~ 50V	53 ~ 63V	
	Over Temperature	Shut down o/p voltage, re-power on to recover								
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	±0.06%/°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, CSA C22.2 No. 207-M89(except for 48V), TUV EN61347-1, EN61347-2-13, CAN/ CSA C22.2 No.223-M91 (except for 48V),IP64, J61347-1,J61347-2-13 approved								
	Withstand Voltage	I/P-0/P:3.75KVAC								
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC Emission	Compliance to EN55015, EN61000-3-2 Class C (pin≥25W), Class D (>70% load) ; EN61000-3-3								
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level, criteria B								
	MTBF	621.4Khrs min.		MIL-HDBK-217F		, отопа в				
Others	Dimension (LxWxH)	145 x 47 x 30mm			0)					
	Packing									
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- 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.
- 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.
- 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.



PWR-PLN30-24

IP64 rated

