

AV24320IP67

Scheda tecnica - Technical data sheet



■ Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 95%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 design for indoor or outdoor installations
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet location



SPECIFICATION

OUTPUT	DC VOLTAGE			24V	
	CONSTANT CURRENT REGION Note.4			12 ~ 24V	
	RATED CURRENT			13.34A	
	RATED POWER			320.16W	
	RIPPLE & NOISE (max.) Note.2			150mVp-p	
	VOLTAGE ADJ. RANGE Note.6			21 ~ 26V	
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type and C type only			
	VOLTAGE TOLERANCE Note.3			6.67 ~ 13.34A	
	LINE REGULATION			± 1.0%	
	LOAD REGULATION			± 0.5%	
SETUP, RISE TIME Note.8	2500ms,80ms/115VAC	500ms,80ms/230VAC at full load			
HOLD UP TIME (Typ.)	15ms at full load	230VAC/115VAC			
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431VDC		
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.94/277VAC at full load (Please refer to "Power Factor Characteristic" curve)			
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading ≥ 50% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC input			
	EFFICIENCY (Typ.) (230Vac)			94%	
	EFFICIENCY (Typ.) (277Vac)			94.5%	
	AC CURRENT (Typ.)	3.5A/ 115VAC	1.65A/ 230VAC	1.45A/ 277VAC	
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=101μs measured at 50% Ipeak) at 230VAC			
LEAKAGE CURRENT	<0.75mA / 277VAC				
PROTECTION	OVER CURRENT Note.4	95 ~ 108%			
	SHORT CIRCUIT	Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed.			
	OVER VOLTAGE			27 ~ 33V	
	OVER TEMPERATURE	Protection type : Shut down and latch off o/p voltage, re-power on to recover			
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°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, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS Note.7	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, IP65 or IP67 (except for HLG-320H C type), J61347-1, J61347-2-13 (except for HLG-320H C type) approved			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	I/P-FG:2KVAC	O/P-FG:1.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
	EMC EMISSION	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥ 50% load) ; EN61000-3-3			
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria B			
	MTBF	157.1K hrs min. ML-HDBK-217F (25°C)			
	DIMENSION	252*90*43.8mm (L*W*H)			
	PACKING	1.88Kg; 8pcs/16Kg/0.92CUFT			
NOTE	<ol style="list-style-type: none"> 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. Please refer to "DRIVING METHODS OF LED MODULE". Derating may be needed under low input voltages. Please check the static characteristics for more details. A type and C type only. Safety and EMC design refer to EN60598-1, subject CNS15233, GB7000.1, FCC part18. 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 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 manufacturers must re-qualify EMC Directive on the complete installation again. Refer to warranty statement. 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. 				



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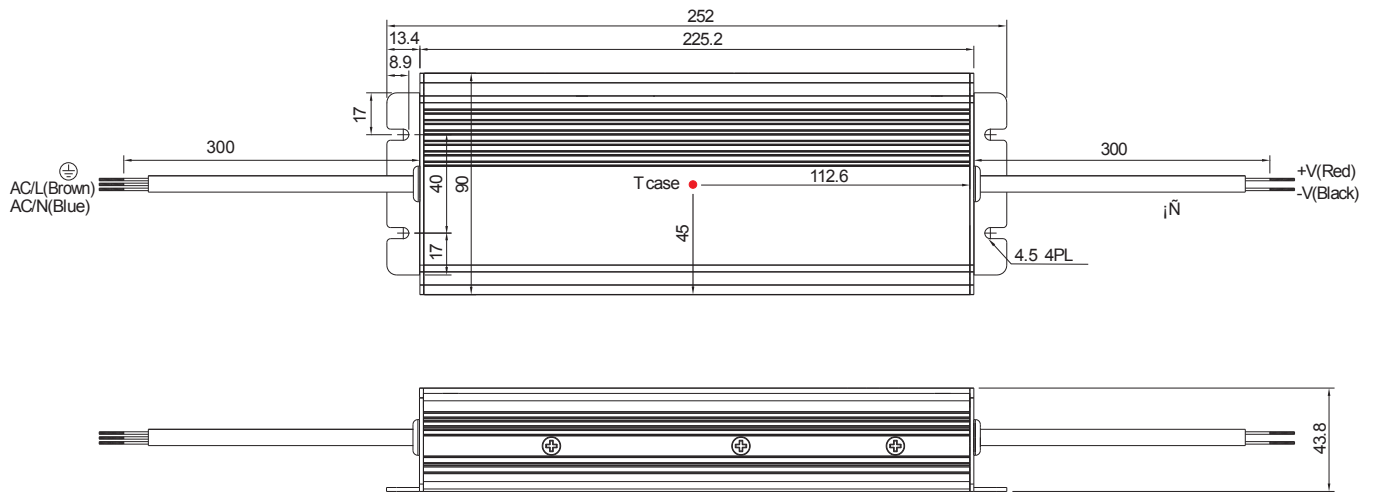
Via Della Tecnica, 42 - 36031 Povolaro di Dueville (VI) - Italy

Tel. +39 0444 360571 - Fax +39 0444 594304 www.lucelight.it - lucelight@lucelight.it

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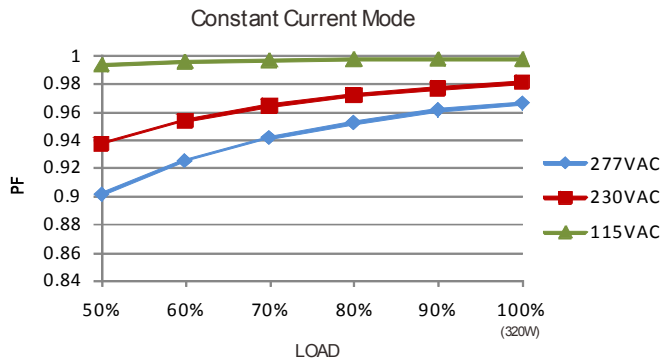
■ Mechanical Specification



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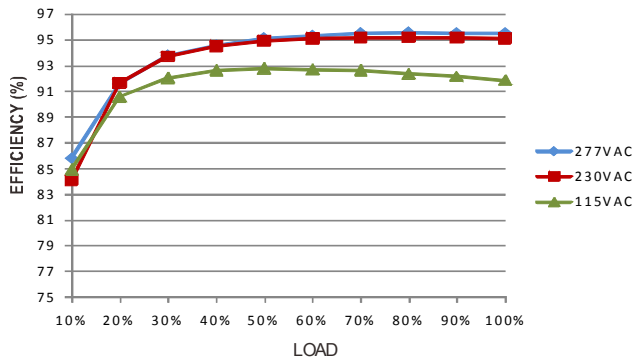
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Power Factor Characteristic



EFFICIENCY vs LOAD (48V Model)

HLG-320H series possess superior working efficiency that up to 95% can be reached in field applications.

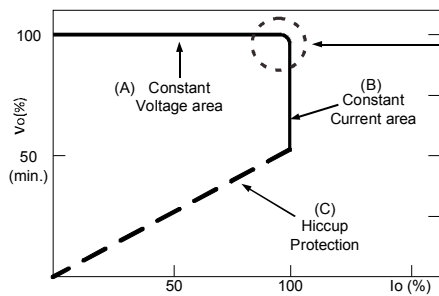


DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B)).



Typical LED power supply I-V curve

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.