

AV12150IP67 - AV24150IP67 - AV48150IP67

Scheda tecnica - Technical data sheet



■ Features :

- Universal AC input / Full range (up to 295VAC)
- Built-in active PFC function
- High efficiency up to 91%
- 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
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- 3 years warranty



SPECIFICATION

		AV12150IP67			AV24150IP67			AV48150IP67	
OUTPUT	DC VOLTAGE	12V			24V			48V	
	CONSTANT CURRENT REGION Note.4	9 ~ 12V			18 ~ 24V			36 ~ 48V	
	RATED CURRENT	11A			6.3A				
	RATED POWER	132W			151.2W			153.6W	
	RIPPLE & NOISE (max.) Note.2	450mVp-p			150mVp-p			200mVp-p	
	VOLTAGE ADJ. RANGE Note.6	9 ~ 13V			22 ~ 27V			40 ~ 56V	
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type and C type only							
		5.5 ~ 11A			3.15 ~ 6.3A			1.6 ~ 3.2A	
	VOLTAGE TOLERANCE Note.3	±2.0%			±1.0%			±1.0%	
	LINE REGULATION	±0.5%			±0.5%			±0.5%	
LOAD REGULATION	±1.0%			±0.5%			±0.5%		
SETUP, RISE TIME	3000ms, 80ms/115VAC 500ms, 80ms/230VAC at full load								
HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load								
INPUT	VOLTAGE RANGE Note.5	90 ~ 295VAC 127 ~ 417VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load (Please refer to "Power Factor Characteristic" curve)							
	EFFICIENCY (Typ.)	88%	88%	90%	90%	91%	91%	91%	
	AC CURRENT (Typ.)	2A / 115VAC	1A / 230VAC	0.68A / 277VAC					
	INRUSH CURRENT(max.)	COLD START 65A(twidth=595µs measured at 50% Ipeak) at 230VAC							
LEAKAGE CURRENT	<1mA / 240VAC								
PROTECTION	OVER CURRENT (Typ.) Note.4	95 ~ 108%							
	SHORT CIRCUIT	Protection type : Constant current limiting, recovers automatically after fault condition is removed							
	OVER VOLTAGE	13.5 ~ 17V			28 ~ 34V			59 ~ 70V	
	OVER TEMPERATURE	Protection type : Shut down and latch off o/p voltage, re-power on to recover							
EMVIRONMENT	WORKING TEMP.	-30 ~ +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, CSAC22.2 No. 250.0-08, UL1012, CAN/CSA-C22.2 No. 107.1-01, UL879, CSAC22.2 No.207-M89, EN61347-1, EN61347-2-13 independent (except for CLG-150 C type), UL60950-1, TUV EN60950-1, IP65 or IP67, J61347-1 (except for CLG-150 C type), J61347-2-13 approved							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
	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 (≥ 75% 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 A							
	MTBF	303.7K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION	222*68*38.8mm (L*W*H)(CLG-150-Blank/A/B)			229*68*38.8mm (L*W*H)(CLG-150-C)				
	PACKING	1.0Kg; 12pcs/13Kg/0.58CUFT(CLG-150-Blank/A/B)			1Kg; 12pcs/13Kg/0.96CUFT(CLG-150-C)				
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 0.1µf & 47µf 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 8750(UL), CNS15233, GB7000.1, FCC part18. 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. 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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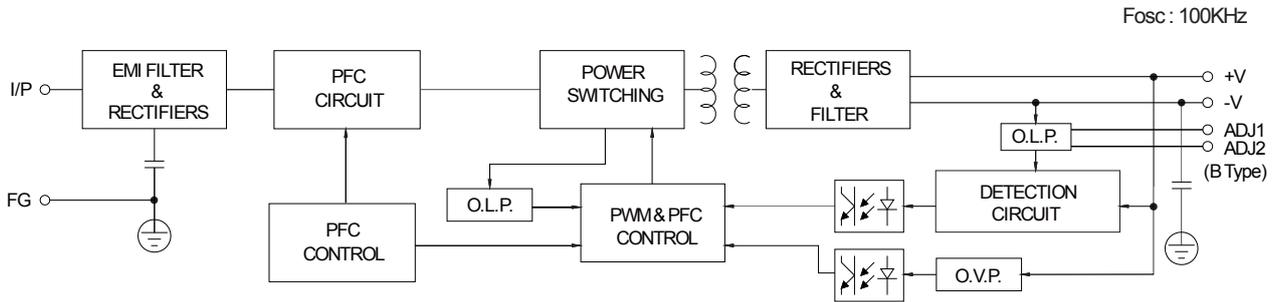
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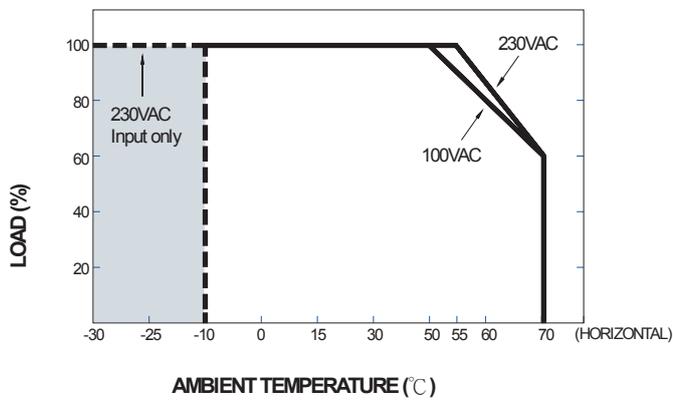
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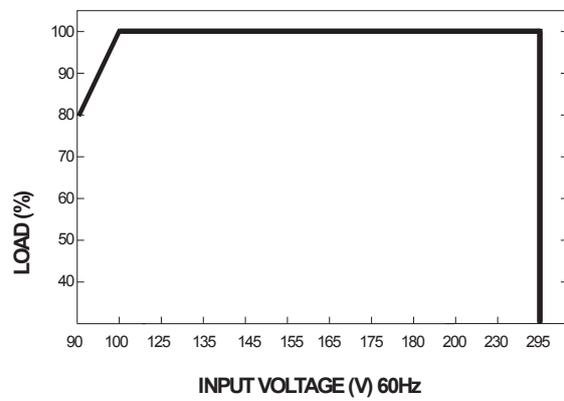
■ Block Diagram



■ Derating Curve



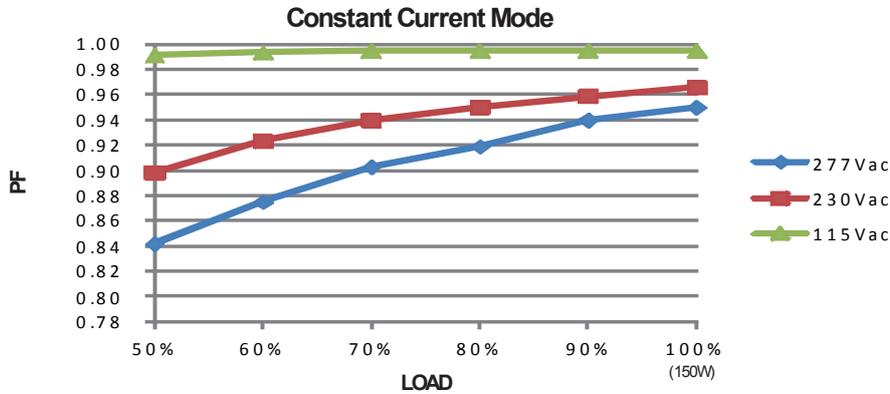
■ Static Characteristics



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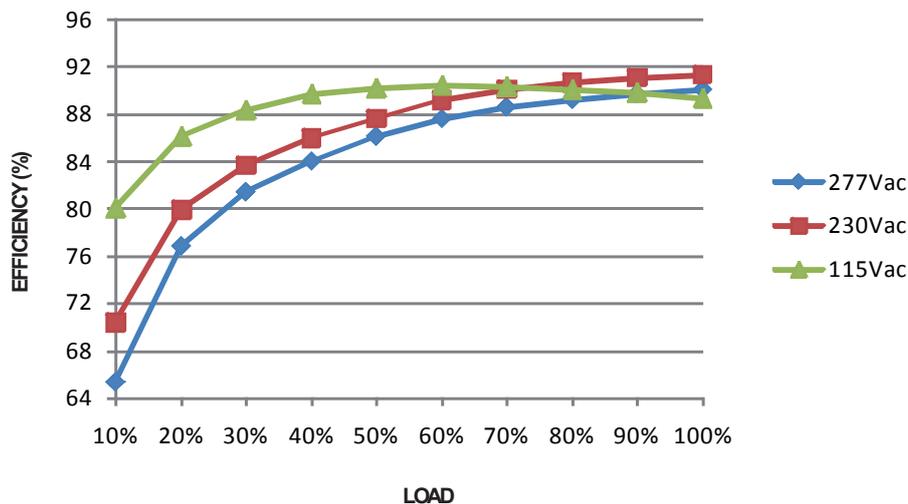
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Power Factor Characteristic



EFFICIENCY vs LOAD (48V Model)

CLG-150 series possess superior working efficiency that up to 91% can be reached in field applications.

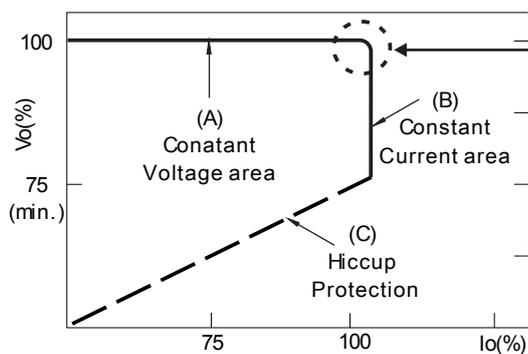


DRIVING METHODS OF LED MODULE

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)].



In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.