

HALO SERIES™

UNDERGROUND LIGHTING SOLUTIONS

High PF Constant Voltage Waterproof LED Power Supply



Features:

- Constant Voltage mode LED power supply.
- Universal AC input/full range.
- Withstand 3750VAC surge input for 5 seconds.
- Built-in active PFC function Efficiency>88%@full load.
- Available for customizing output current/voltage.
- Protections: Short Circuit/Overload/Over Voltage/Over Temperature.
- Cooling by free air convection.
- Fully encapsulated with IP67 level.
- 2~3 times burn-in tests with 100% full load for more than 24 hours.
- Rubycon capacitor, 3 years warranty.

Specification Sheet

Model	Product Model	480W		
Output	DC Voltage	24V	36V	48V
	DC Current (max)	20A	13.3A	10A
	Rated Power	480W	350W	345W
	Ripple & Noise (Note1)	180mvp-p	150mvp-p	150mvp-p
	Current Tolerance	±3.0%	±3.0%	±3.0%
	Voltage Accuracy	±3.0%	±3.0%	±3.0%
	Line Regulation	±1%	±1%	±1%
	Load Regulation	±1.0%	±1.0%	±1.0%
	Set-up, Rise Time	500ms 80ms/230VAC, 600ms 80ms/110VAC		
	Hold-up Time	50ms/230VAC, 25ms/110VAC @ full load		
Dimmable Function	N/A			
Input	Voltage Range	85~265VAC		
	Frequency	47~63HZ		
	AC Current	4.05A/115VAC, 2.02A/230VAC		
	Efficiency (Typ.) (Note2)	92%		
	Inrush Current	Cold start current 20A/115VAC, 40A/230VAC		
	Leakage Current	<2.5mA/240VAC		
Protection	Current Protection	±1% current limiting type		
	Over-Voltage	110%~130%(Shut down and latch off O/P voltage, repower on to recover)		
	Over-Load	130% (Shut down and latch off O/P voltage, repower on to recover)		
	Short Circuit	Hiccup mode. Recovers automatically after troubleshooting		
	Over-Temperature	85°C±10°C (Shut down O/P voltage, repower on to recover)		
Environment	Working Environment Temp.Humidity	-40°C~+50°C, 10%~90%RH		
	Storage Temp.Humidity	-40°C~+70°C, 10%~95%RH noncondensing		
	Withstand Vibration	10~500HZ, 2G 10min/1cycle, period for 60minutes, each axis		
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC		
	Isolated Resistance	I/P-O/P、I/P-FG、O/P-FG: 100M ohms/500VDC		
Fit Standard	Safety Standard	Fit UL1012, IP67 protection level		
	EMC Standard	Fit EN 55015/EN 61000/EN 61547, CLASS A		
Others	Dimension	260*120*55mm		
	Weight/Packing	2500G/10pcs/17.5kg		
	Lifespan (Note3)	≥50000Hrs (25~30°C)		
	No Load Power Consumption	≤1W		
	MTBF (Note3)	250K hrs min, MIL-HDBK-217F		

Note

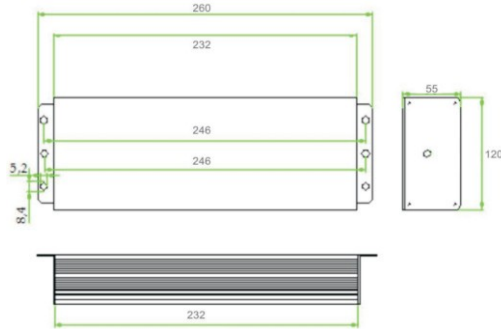
All parameters are measured at normal temperature (+25~+28 °C)
 1、Ripple & Noise are measured at 20KHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor (@ full load).
 2、The efficiency measured at Max output voltage, and 230VAC with full load, if with 110VAC the efficiency will be lowered 0.5%~1.5%; Working 1~2 hours, efficiency will be higher 1.5%~1%than the initial stage.
 3、This measured at 120VAC ,80%~85% load with environmental temperature about +25°C~+30°C.the housing temperature with +55°C or so.

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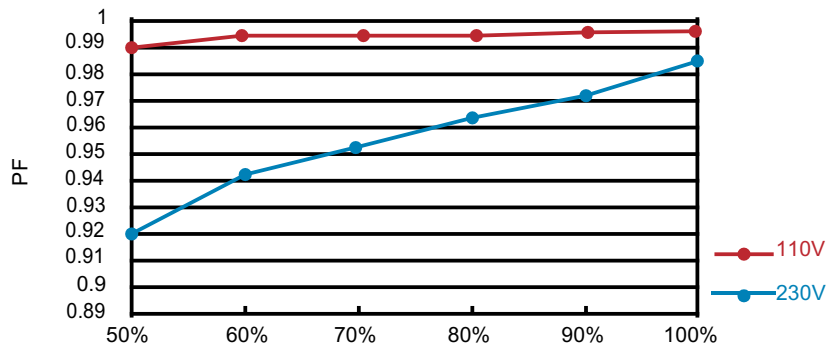
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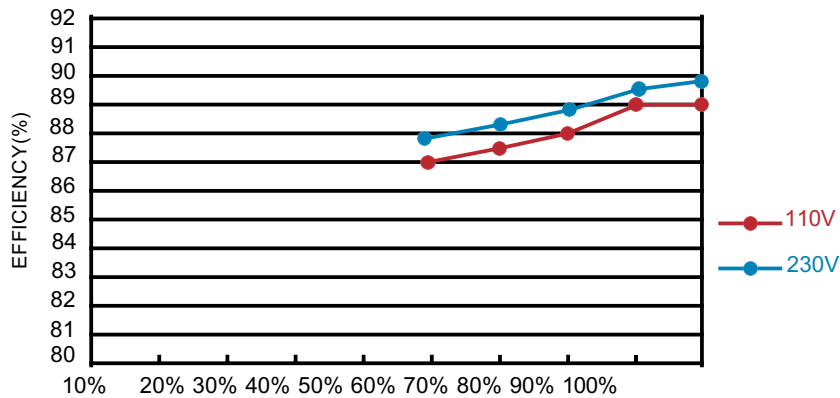
Mechanical Specification



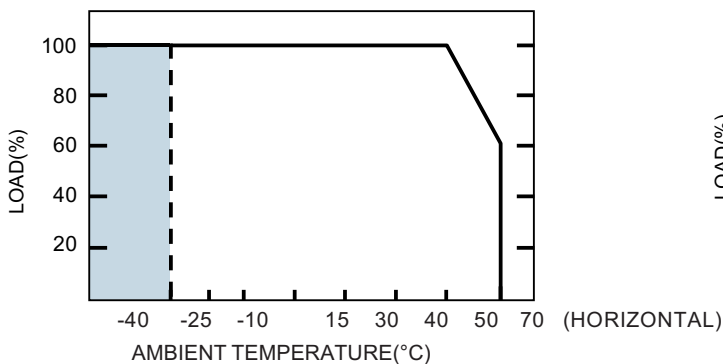
Power Factor Characteristics



Efficiency & Load of (12V) (110VAC / 230VAC)



Derating Curve



Static Characteristics

