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150W Single output waterproof led driver (Constant Voltage Type)

YSV-150Series

	Features
	1. 3 years warranty
	2. High efficiency 91%
	3. Smaller size
	4. Economical design
	5. Protections: Short-circuit /Over-load /Over-voltage /Over-temperature / Lightning protection (Alternative)
	6. Working temperature : -40℃ ~ + 70℃
	7. IP67 design
8. 2~3 times burn-in tests (+50℃/-40℃ at full load with over 14 hours)	

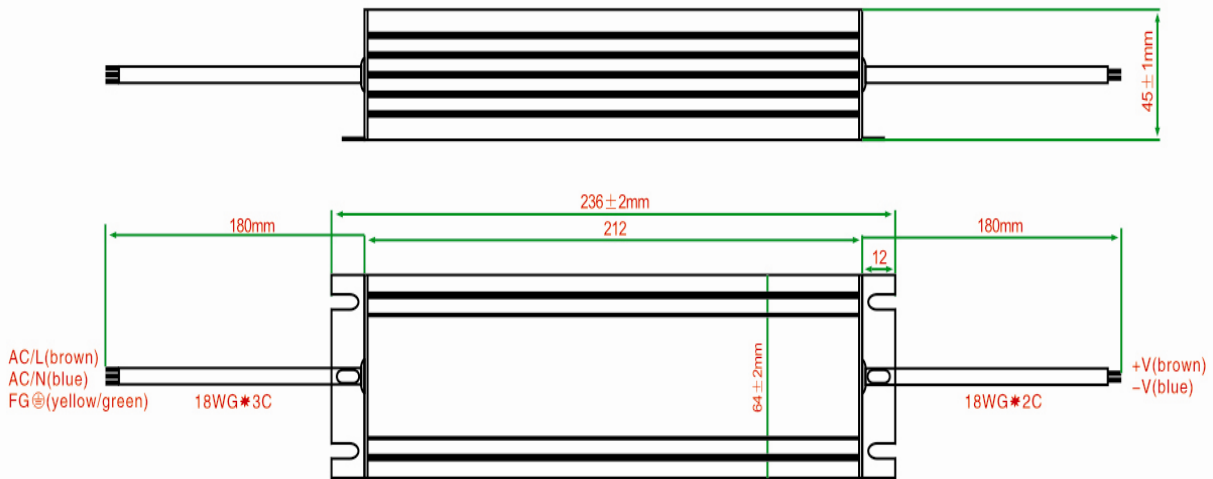
Application

Led strips, electronics display screen, outdoor instruments and machines..... etc

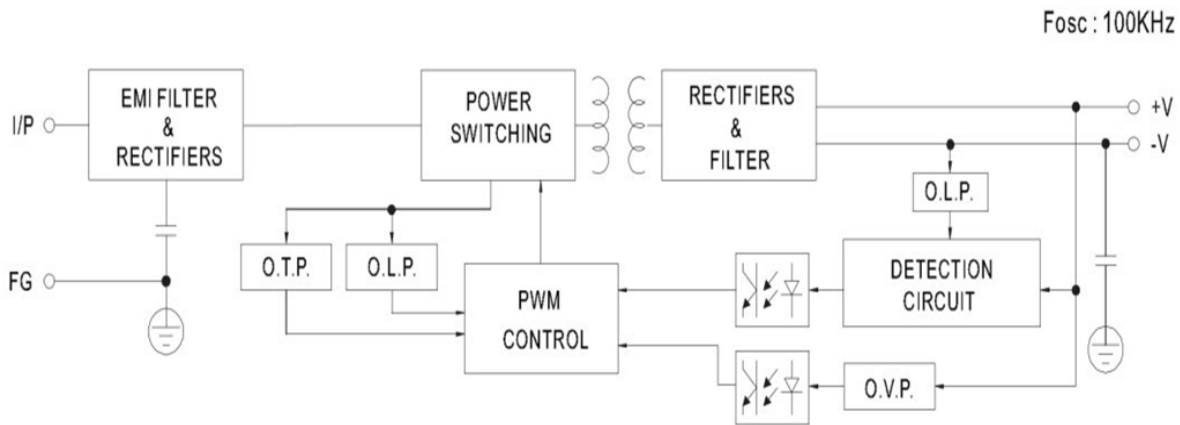
Specification Sheet

Model	YSV-150 Series	YSV-150-12	YSV-150-24	YSV-150-36	YSV-150-48	
Output	Rated Voltage (Note 1)	12VDC	24VDC	36VDC	48VDC	
	Output Current Range	0 ~ 12.5A	0 ~ 6.25A	0 ~ 4.16A	0 ~ 3.12A	
	Rated Power	150W	150W	150W	150W	
	Ripple and Noise (Max)(Note 2)	120mVp-p	150mVp-p	150mVp-p	180mVp-p	
	Voltage Tolerance	±3.0%	±3.0%	±2.0%	±2.0%	
	Line Regulation	±1%	±1%	±1%	±1%	
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%	
	Set-up, Rise Time	1500ms 80ms/230VAC, 2000ms 80ms/110VAC				
	Hold-up Time	50ms/230VAC at full load, 25ms/110VAC at full load				
Input	Voltage Range	90~130VAC/170~250VAC				
	Frequency Range	47~63Hz				
	Efficiency (Note 3)	87.5%	89.0%	91.0%	91.5%	
	AC Current	1.91A ~ 0.62A				
	Inrush Current	Cold Start at 70A/230VAC, Input at Ta: 25℃ cold start.				
	Leakage Current	< 0.5mA at 230VAC, 60Hz Input				
Protection	Over-Voltage	110% ~ 130% (Shut down O/P voltage, repower on to recover)				
	Over-load	130% ~ 150% (Shut down O/P voltage, repower on to recover)				
	Short Circuit	Hiccup mode, recovers automatically after faulty problem is removed				
	Lightning Protection (Alternative)	Gas discharge tube automatically open to discharge, repower on to recover				
	Over-temperature	85℃±10℃ (Shut down O/P voltage, re-power on to recover)				
Environment	Working Environment (Note 4)	-40℃ ~ +70℃				
	Working Humidity	20~90% RH non-condensing				
	Storage Environment & Humidity	-40℃ ~ +80℃				
	TEMP. Coefficient	±0.05%/℃ (0~50℃)				
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
Safety & EMC	Safety Standards	EN-61347-1, EN61347-2-13, IP67, ROHS Tests, Design refer to UL8750				
	Withstand Voltage	I/P-O/P: 3KVAC, IP-FG:1.5KVAC, OP-FG: 500VAC				
	Isolation Resistance	I/P-O/P IP-FG OP-FG: 100M Ohms/500VDC / 25℃ / 70% RH				
	EMC Emission	Compliance to EN55015: 2007, EN61547:1995+A1:2000; EN61000-3-2: 2006; EN61000-3-3: 2008				
	EMC Immunity	Compliance to EN55015 EN61547 EN61000-4-2,3,4,5,6,8,11				
Others	Life Span (Note 5)	≥50000Hrs (25~30℃)				
	No Load power consumption	≤3.0W				
	MTBF (Note 6)	250K hrs min, MIL-HDBK-217F (25℃)				
	Dimension (Note 7)	236*64*45 mm (L*W*H)				
	Packing (Note 8)	15pcs/carton				
	Weight	1.15Kg/pcs				
Notes	All parameter are measured at normal temperature (+25 ~ +28℃)					
	1. The rated voltage can be customized, such as 18V/27V... can be customized					
	2. Ripple & Noise are measured at 20KHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor (at full load)					
	3. The efficiency measured at Max output voltage, and 230VAC with full load, if with 110VAC the efficiency will be lowered 1% ~ 2%; Working 1~2 hours, efficiency will be higher 0.5% ~ 1% than the initial stage					
	4. This series can work -45℃ (at full load), if need related parameter contact us.					
	5. This measured at 120VAC, 80% ~85% load with environmental temperature about +25℃~+30℃, the outer housing temperature with +55℃ or so.					
	6. This measured at 120VAC, 80% ~85% load with environmental temperature about +25℃~+30℃, the outer housing temperature with +55℃ or so.					
	7. More details see the following mechanical draft.					
8. The 15pcs packing method is not suitable for led drivers with waterproof connector						

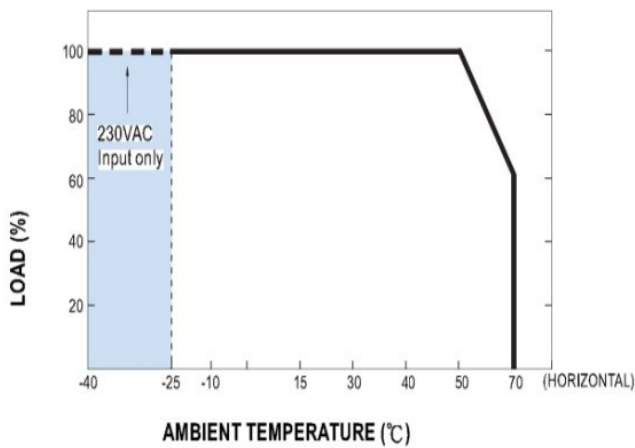
Mechanical Specification



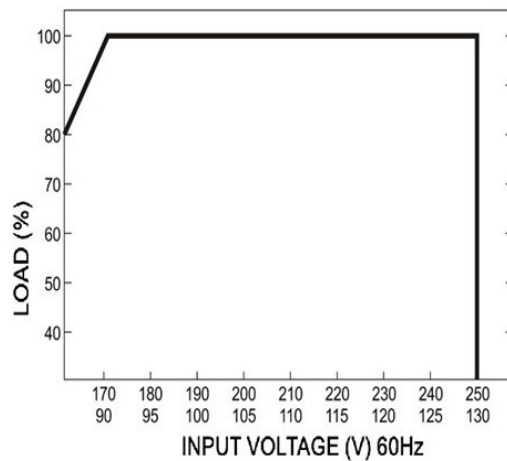
Block Diagram



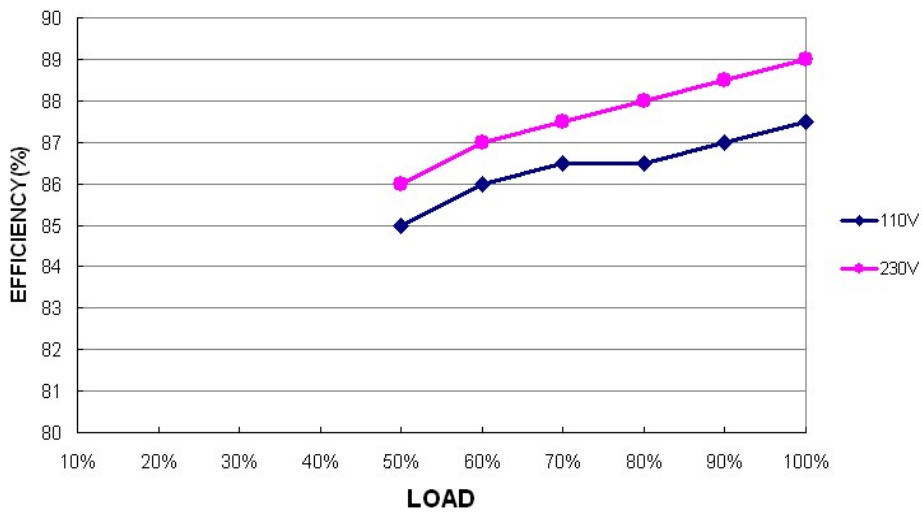
Derating Curve



Static Characteristics

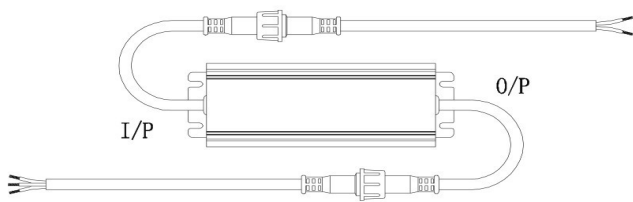


Efficiency & Load of (48V) (110VAC / 230VAC)



Waterproof connector (Alternative or customized)

The waterproof connector is usually used to easily assemble and replace in projects. It have waterproof performance when in use.



The type of connector can be customized or customer can independently buy in the market

