

GLSV-075 series

75W Constant Voltage Outdoor LED Power Supply



Features:

- Constant voltage design
- Built-in active PFC function
- Universal AC input / Full range up to 305VAC
- Protections: Short Circuit / Over Voltage / Over Current / Over Temperature
- Surge immunity: Differential Mode – 5kV, Common Mode - 10kV
- Cooling by free air convection
- IP67 design for indoor and outdoor applications

Application:

- Landscape lighting
- Linear lighting
- Industrial lighting



© MODEL INFORMATION

Model Number	Output Power [W]	Output Voltage [V]	Output Current [A]	Efficiency typ. [%]	Power Factor typ.
GLSV-075B012	75.00	12	6.25	87%	0.96
GLSV-075B024	75.12	24	3.13	87%	0.96
GLSV-075B036	74.88	36	2.08	87%	0.96
GLSV-075B048	74.88	48	1.56	87%	0.96

© APPROVAL MARKS and SYMBOLS

GLSV-075B012						tc: 85°C ta: 60°C
GLSV-075B024						tc: 85°C ta: 60°C
GLSV-075B036						tc: 85°C ta: 60°C
GLSV-075B048						tc: 85°C ta: 60°C

© MODEL ENCODING

GLSV	-	075	B	xxx
Series name		Rated Output Power [W]	Option name	012 - rated output voltage is 12V 024 - rated output voltage is 24V 036 - rated output voltage is 36V 048 - rated output voltage is 48V

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© ELECTRICAL SPECIFICATION

MODEL	GLSV-075B012	GLSV-075B024	GLSV-075B036	GLSV-075B048
OUTPUT				
OUTPUT VOLTAGE	12VDC	24VDC	36VDC	48VDC
NO LOAD VOLTAGE (MAX.)	12.6VDC	25.2VDC	37.8VDC	50.4VDC
LOAD CURRENT RANGE	0 ÷ 6.25A	0 ÷ 3.13A	0 ÷ 2.08A	0 ÷ 1.56A
RATED POWER	75.00W	75.12W	74.88W	74.88W
OUTPUT VOLTAGE PRECISION	± 5.0%			
LINE REGULATION (FROM 115VAC TO 305VAC)	± 3.0%			
LOAD REGULATION (FROM 50% TO 100% LOAD)	± 3.0%			
OUTPUT VOLTAGE RIPPLE	< 3% V _{OUT}			
TURN-ON DELAY TIME	1s for 100% load 230VAC / 0.5s for 100% load 115VAC			

INPUT				
VOLTAGE RANGE	90 ÷ 305VAC (Refer to Input Voltage vs. Load Curve)			
FREQUENCY RANGE	47 ÷ 63Hz			
EFFICIENCY AT 100% LOAD (TYP.)	87%	87%	87%	87%
	Refer to Efficiency vs. Output Load Curve			
AC CURRENT (MAX.)	1.0A			
INRUSH CURRENT (MAX.)	75A / 230VAC (Refer to Inrush Current Waveform)			
LEAKAGE CURRENT (MAX.)	0.75mA/230VAC			
POWER FACTOR (TYP.)	0.96 / 230VAC at 100% load (Refer to Power Factor vs. Output Load Curve)			
THD	< 15% / 230VAC at 100% load			

PROTECTIONS				
SHORT CIRCUIT	Type: decrease of input power, auto-recovery.			
OVER VOLTAGE	13.2 ÷ 16.8VDC	26.4 ÷ 33.6VDC	39.6 ÷ 50.4VDC	52.8 ÷ 67.2VDC
	Type: shut off output voltage, restart on to recovery.			
OVER CURRENT	130-190% rated output current		110-150% rated output current	
	Type: hiccup mode, auto-recovery.		Type: constant current, auto-recovery.	
OVER TEMPERATURE	Temperature T _c > 90°C		T _c > 85°C	
	Type: shut off output voltage, re-power on to recovery.		Type: Output current is limited in 30% (typ.)	

WORKING ENVIRONMENT	
WORKING TEMPERATURE	-40°C ÷ 60°C (Refer to Derating Curve)
WORKING HUMIDITY	20 ÷ 95% RH non-condensing
STORAGE TEMPERATURE AND HUMIDITY	-40°C ÷ 85°C, 20 ÷ 95% RH non-condensing
VIBRATION	10 to 500Hz sweep at constant acceleration 1G (depth 3.5mm) for 1 hour for each X, Y, Z axes
DEGREE OF PROTECTION	[2] IP67

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SAFETY AND EMC REGULATIONS

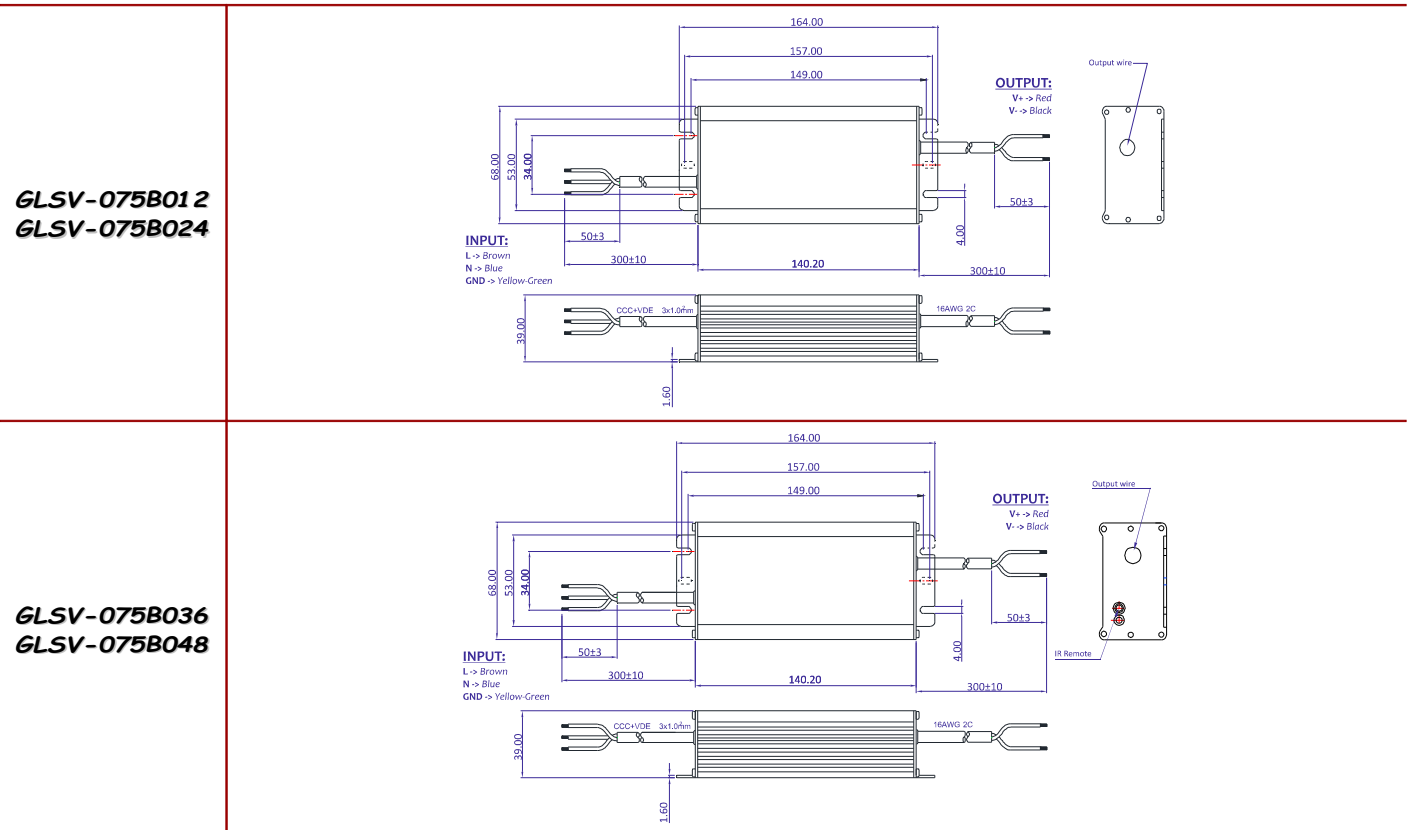
SAFETY STANDARDS	CE	EN61347-1; EN61347-2-13
EMC STANDARDS	CE	EN55015; IEC61000-3-2; IEC61000-3-3; IEC61547
WITHSTAND VOLTAGE	IN/OUT: 3.75kVAC; IN/GND: 1.6kVAC; OUT/GND: 1.6kVAC; 60s, current < 10mA	
GROUNDING RESISTANCE	< 0.1Ω (60S/25A)	
INSULATION RESISTANCE	IN/OUT, IN/GND, OUT/GND > 100MΩ (500VDC/60s)	

OTHERS

Input Wire	CCC+VDE 3 x 1.0mm ² , length = 300 ± 10mm	
Output Wire	16AWG 2C, length = 300 ± 10mm for GLSV-075B012 and GLSV-075B024	
	CCC+VDE 2 x 1.0mm ² , length = 300 ± 10mm for GLSV-075B036 and GLSV-075B048	
MTBF (MIL-HDBK-217F)	200 000h at 230VAC / 80% load and ta < 25°C	
Life Time (min.)	50 000h at 230VAC / 100% load and tc < 60°C (Refer to Life Time vs. T _c Curve)	
Dimensions (Length * Width x Height)	164 * 68 * 39 mm	
Weight	680 ± 50g	700 ± 50g

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Suitable for indoor or outdoor use. Please avoid direct exposure to sunlight and immersion in water for over 30 minutes.
3. Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC and LVD Directives.

© MECHANICAL SPECIFICATION



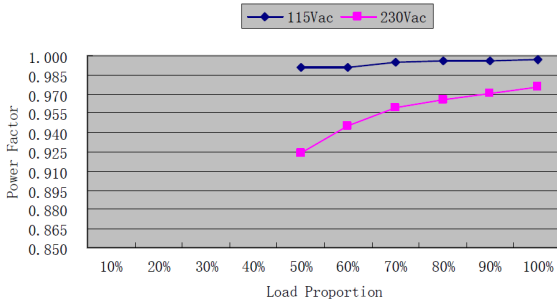
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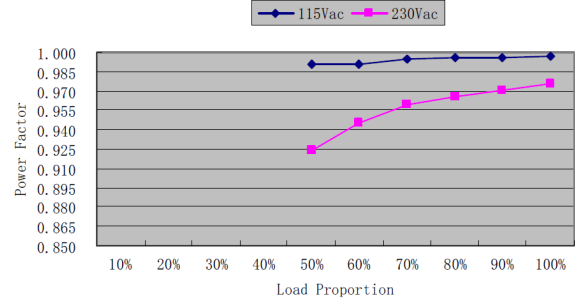


© Power Factor vs. Load Curve

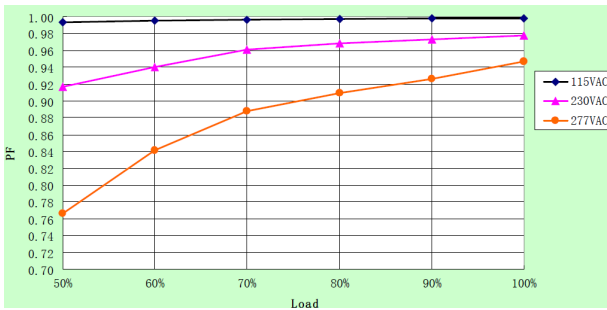
GLSV-075B012



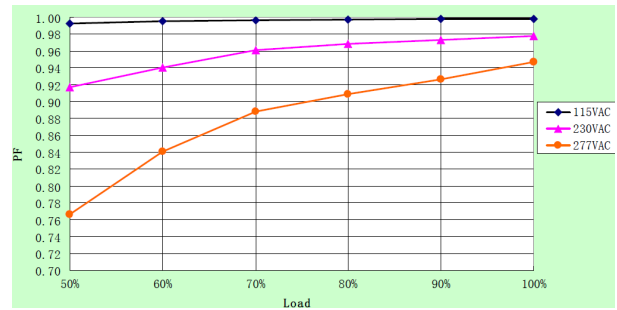
GLSV-075B024



GLSV-075B036

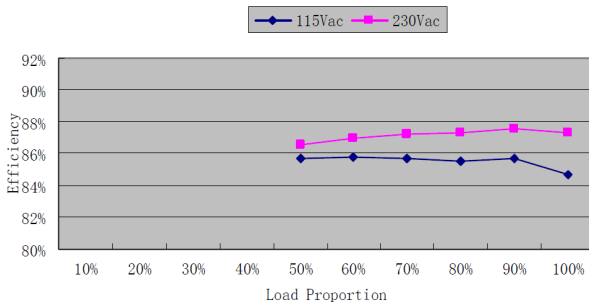


GLSV-075B048

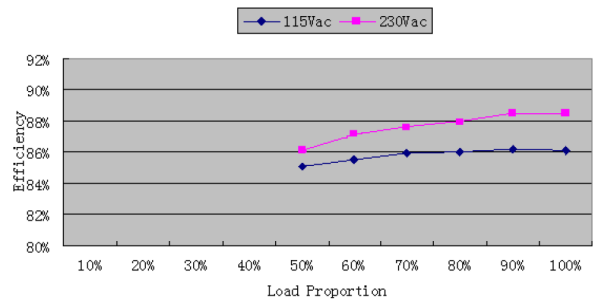


© Efficiency vs. Load Curve

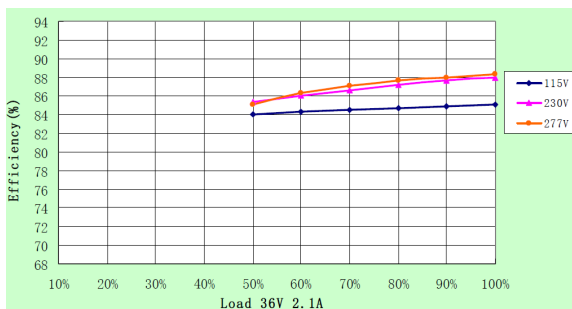
GLSV-075B012



GLSV-075B024



GLSV-075B036



GLSV-075B048

