



# 50W, EUV-050ST Series

- Power the world with highest efficiency



- **input voltage / PFC:** 90 ~ 305 Vac / 0.92 (typical)
- **Output Wattage:** 50W, Constant Voltage
- Fully encapsulated with waterproof **IP67** level compliant,
- Reliability **Protections:** OVP, OCP, SCP
- **High Efficiency,** up to 87%
- **Safety:** comply with UL8750 & EN61347 regulations
- **MTBF 300,000 hrs @ 25°C,** full load, 110Vac input
- **Lifetime: 60,000 Hrs @ 110Vac Input,** 80% load, 25°C ambient Temp.
- **5-year manufacturer warranty**

Model No. (1)	Output Voltage Range (V)	Output Current (A)	OVP (V max.)	OCP Hicup ( %Max)	Efficiency (%) (3)	Comment
EUV-050S012ST (2)	10.8 - 13.2	4.2	17	170	82	
EUV-050S018ST (2)	16.2 - 19.8	2.78	25	170	84	
EUV-050S024ST (2)	21.6 - 26.4	2.1	34	170	84	
EUV-050S036ST (2)	32.4 - 39.6	1.4	42	170	86	
EUV-050S048ST (3)	43.2 - 52.8	1.05	60	170	87	

Note  
(1) A suffix - XXXX may be added to denote variations or modifications to the base unit  
(2) Output Rated Class 2 at USR & CNR. (3) Class 2 output (USR) and non-class 2 output (CNR) (4) All rating measured at full load and 220 Vac

Input Specification					
Parameter	Conditions/ Description	Min.	Normal	Max.	units
Input Voltage Range	Universal Input	90	100 - 277	305	Vac
Input Frequency Range		47		63	Hz
Input Current	100 Vac / 220 Vac input, full load output			0.7 / 0.35	A
Power Factor	At 100 Vac / 220Vac Input	0.98 / 0.92			
Inrush Current	At 240Vac Input, 25°C cold start			60	A

Output Specification					
Parameter	Conditions/ Description	Min.	Normal	Max.	units
Line Regulation				±3	%
Load Regulation				±10	%
Ripple and Noise	20MHz Bandwidth, refer Note-1			2	%pk-pk (Vo)
Voltage Overshoot / Under shoot	% of Vout when power turn on or off			40	%
Turn-On Delay	Measured at 110Vac / 220Vac Input and Full Load			3.0 / 2.0	S

General Specification					
Parameter	Conditions/ Description	Min.	Normal	Max.	units
Efficiency	Refer to individual models, measured at Full load, 110/ 220 Vac @ 25°C	81.0/ 83.0	82.0/ 84.0		%
MTBF	Per MIL-HDBK-217F @ 25°C ambient temperature, full load, 110Vac input		300,000		Hours
Operating/ Storage Temperature		-35/ -40		70 / 80	°C
Dimension (L x W x H)		199.0 x 42.5 x 34.0 /	7.8 x 1.7 x 1.3		mm/ inch
Weight		480			g

Safety & EMC Compliance			
Parameter	Standard	Category	Comment
SAFETY	USA & Canada: UL 8750 Compliance to UL 1012, UL 935		
	CAN/ CSA-22.2 No. 0. CSA-C22.2 No. 250.0	cUL	
	Europe: EN 61347-1, EN61347-2-13	CE	
EMI	Conducted emission Test & Radiated emission Test with 6 dB margin	EN55015	
EMS	Harmonic Distortion, Current Emission	EN61000-3-2	
	Voltage Flicker and Fluctuation	EN61000-3-3	
	Electrostatic Discharge (ESD)	EN61000-4-2	
	Radiated RFI	EN61000-4-3	
	Fast Transients / Burst - EFT	EN61000-4-4	
	Input Line Surge Immunity	EN61000-4-5	
	Conducted RFI	EN61000-4-6	
	Power Freq Magnetic Field	EN61000-4-8	
	Voltage Dips	EN61000-4-11	
	Electromagnetic Immunity Requirements Applied to Lighting Equipment	EN61547	

Environmental Protection			
Parameter	Standard	Level	Comment
ROHS	European Directive 2002/ 95/ EC	Compliant	

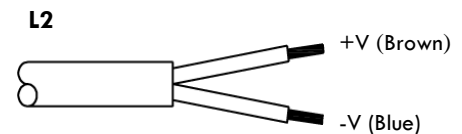
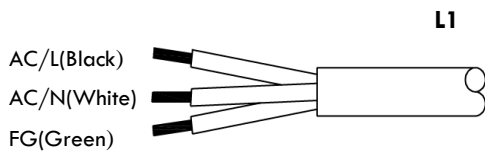
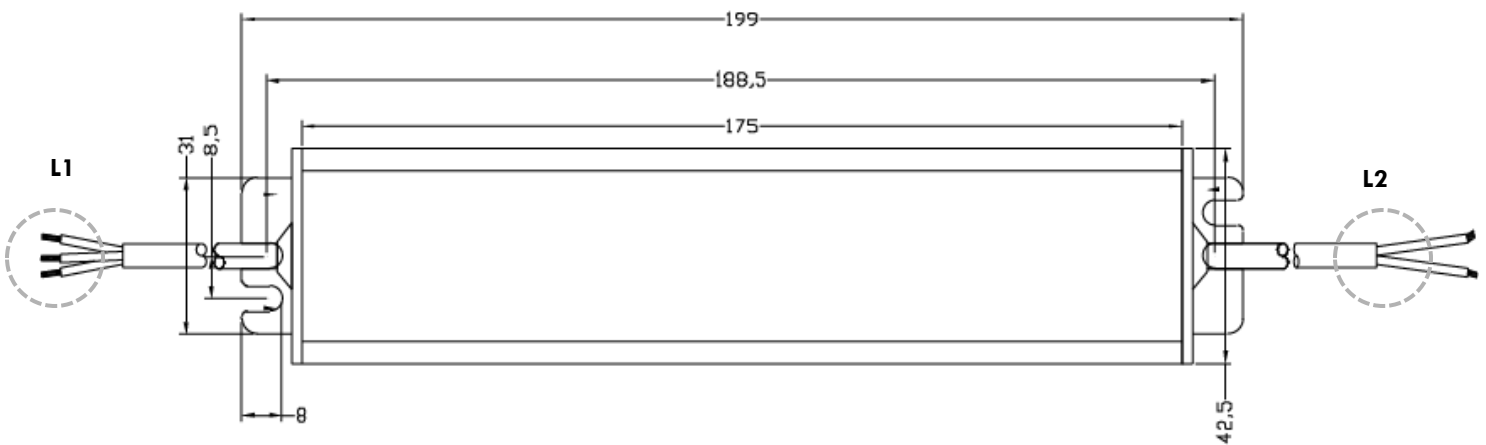
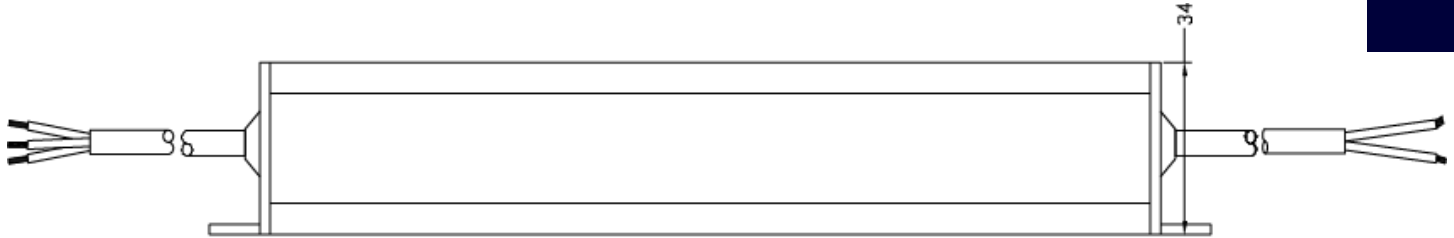


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**Dimension: (L) x (w) x (H)**

• 199.0 x 42.5 x 34.0 (mm) / 7.8 x 1.7 x 1.3 (inch)



**Input wiring assembly – SJTW 18AWG 3C**

- White(N), Black (L), Green(G)
- L1: 650±30mm

**Output wiring assembly – SJTW 18AWG 2C**

- Brown(+), Blue (-)
- L2: 240±20mm

1. Datasheets are updated as needed and as such, specifications are subject to change without notice.
2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured.
3. Mechanical drawings (model No. EUV-050SxxxST) is for reference only. The cable wire configuration may vary from other custom designed models as picture showing. Please contact your sales representative for detail.
4. Specifications are for reference only. All specifications are measured at an ambient temperature of 25°C, humidity < 75%, nominal input voltage and at rated output load unless otherwise specified.