



# 300W, EUV-300ST Series

CV1C300ST

- Power the world with highest efficiency



- **Input Voltage / PFC:** 90 ~ 305 Vac / 0.98 (typical)
- **Output Wattage:** 300W, Constant Voltage
- Fully encapsulated with waterproof **IP67** level compliant,
- **Reliability Protections:** OVP, OCP, SCP
- **High Efficiency:** up to 94%
- **Safety:** Comply with UL8750 & EN61347 regulations
- **MTBF:** 200,000 hrs @ 25°C, full load, 110Vac input
- **Lifetime:** 100,000 hrs @ 110 Vac Input, full load, 25°C ambient Temp.
- **Warranty:** 5-year

Model No. (1)	Output Voltage Range (V)	Output Current (A)	OVP (V max.)	OCP Hicup ( %Max)	Efficiency (%) (3)	Comment
EUV-300S012ST	11.4 - 12.6	22.9	18	180	93	* 275W
EUV-300S024ST	22.8 - 25.2	12.5	35	180	96	
EUV-300S036ST	34.2 - 37.8	8.33	50	180	96	
EUV-300S042ST	39.9 - 44.1	7.14	55	180	96	
EUV-300S048ST	45.6 - 50.4	6.25	61	180	96	
EUV-300S052ST	49.4 - 54.6	5.77	66	180	96	
EUV-300S054ST	51.3 - 56.7	5.55	66	180	96	
EUV-300S056ST	53.2 - 56.8	5.35	78	180	96	
EUV-300S060ST	57.0 - 63.0	5	78	180	96	
EUV-300S084ST	79.8 - 88.2	3.57	105	180	96	
EUV-300S0105ST	99.7 - 110.2	2.85	130	180	96	
EUV-300S0150ST	142.5 - 157.5	2	185	180	96	

**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) All rating measured at full load and 220 V<sub>in</sub> Input.

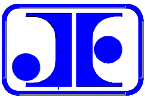
Input Specification					
Parameter	Conditions/ Description	Min.	Normal	Max.	units
Input Voltage Range	Universal Input	90	100 - 277	305	Vac
Input Frequency Range		47		63	Hz
Input Current	100 Vac / 220 Vac in, Full load output			3.3/ 1.6	A
Power Factor	At 100 Vac / 220Vac Input	0.98/ 0.96			
Inrush Current	At 240Vac Input, 25°C cold start			50	A

Output Specification					
Parameter	Conditions/ Description	Min.	Normal	Max.	units
Line Regulation				±1	%
Load Regulation				±3	%
Ripple and Noise	20MHz Bandwidth, refer Note-1			2	%pk-pk (Vo)
Voltage Overshoot / Undershoot	% of V <sub>out</sub> when power turn on or off			10	%
Turn-On Delay	Measured at 110Vac / 220Vac Input and Full Load			0.2 / 0.2	S

General Specification					
Parameter	Conditions/ Description	Min.	Normal	Max.	units
Efficiency	Refer to individual models, measured at Full load, 110/ 220 Vac @ 25°C	88		93	%
MTBF	Per MIL-HDBK-217F @ 25°C ambient temperature, full load, 110 Vac		200,000		Hours
Operating/ Storage Temperature		-35/ -40		70 / 80	°C
Dimension (L x W x H)		252.0 x 101.0 x 44.5 / 10.0 x 4.0 x 1.8			mm / inch
Weight		1,540			g

Safety & EMC Compliance			
Parameter	Standard	Category	Comment
SAFETY	USA & Canada: UL 8750 Compliance to UL 1012, UL 935	cUL	
	CAN/ CSA-22.2 No. 0. CSA-C22.2 No. 250.0		
	Europe: EN 61347-1, EN61347-2-13		
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	

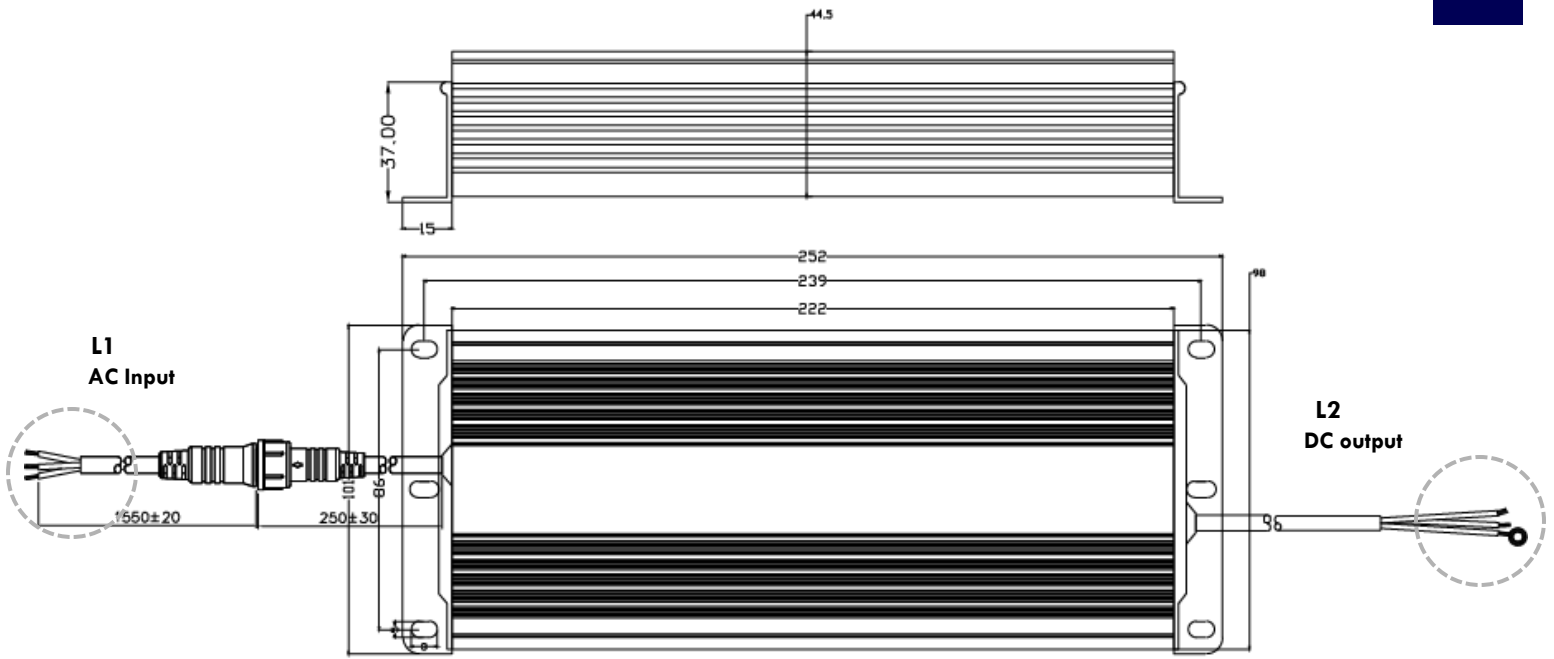


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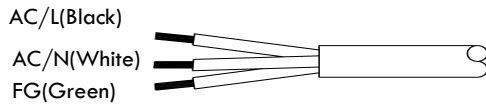
# 300W, EUV-300ST Serie

**Dimension: (L x W X H)**

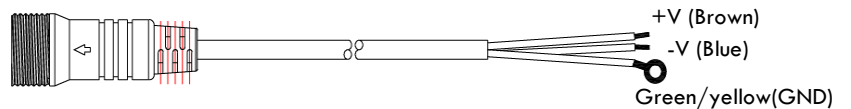
• 252.0 x 101.0 x 44.5 (mm) / 10.0 x 4.0 x 1.8 (inch)



**L1  
AC Input**



**L2  
DC output**



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

• White(N), Black (L), Green(G) – 200±30mm

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

• Brown(+), Blue (-), Green/yellow (GND) – 600±30mm

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. MSL-T5350IC56.0-300A) 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.