



300W, MSL-300B Series

CC1C300ST

- Power the world with highest efficiency -



- **Input Voltage /PFC:** 90 ~ 305 Vac / 0.99 (typical)
- **Output Wattage:** 300W, Constant Current
- Fully encapsulated with waterproof **IP67** level compliant,
- **Reliability Protections:** OVP, OTP, SCP
- **High Efficiency:** up to 92%
- **Safety Regulation:** Designed to meet with UL8750 & EN61347
- **MTBF:** 300,000 hrs @ 25°C, full load, 110Vac input
- **Lifetime:** 70,000 Hrs @ 110 Vac Input, 80% load, 25°C ambient Temp.
- **Warranty:** 5-year



Model No. (1)	Output Voltage Range (V)	Output Current (A)	OVP (Vmax.)	OTP (°C)	Efficiency (%) (5)	Comment
MSL-T2500IC120.0-300B	120	2.50	142	110	92	
MSL-T4000IC75.0-300B	75	4.0	83	110	92	
MSL-T5560IC54.0-300B	54	5.56	60	110	92	
MSL-T6250IC48.0-300B	48	6.25	54	110	92	
MSL-T7150IC42.0-300B	42	7.15	47	110	91	
MSL-T8340IC36.0-300B	36	8.34	41	110	91	
MSL-T10000IC30.0-300B	30	10.0	33	110	91	
MSL-T12500IC24.0-300B	24	12.50	27	110	91	

Note
(1) A suffix - XXX may be added to denote variations or modifications to the base unit (2) Output Rated Class 2 at USR & CNR
(3) Non-Class 2 output at USR & CNR. (4) Class 2 output (USR) & Non-Class 2 output (CNR). (5) All rating measured at full load and 220 Vac 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 input, full load output			2.4 / 1.2	A	
Power Factor	At 100 Vac / 220Vac Input	0.99 / 0.96				
Inrush Current	At 240Vac Input, 25°C cold start			65	A	

Output Specification						
Parameter	Conditions/ Description	Min.	Normal	Max.	units	
Line Regulation				±1	%	
Load Regulation				±3	%	
Ripple and Noise	20MHz Bandwidth, refer Note-1			3	%pk-pk (Vo)	
Voltage Overshoot / Under shoot	% of Vout when power turn on or off			10	%	
Turn-On Delay	Measured at 110Vac / 220Vac Input and Full Load			2.0 / 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	87.0 / 88.0	89.0 / 90.0		%	
MTBF	Per MIL-HDBK-217F @ 25°C ambient temperature, full load, 110 Vac input		300,000		Hours	
Operating/ Storage Temperature		-35 / -40		70 / 80	°C	
Dimension (L x W x H)		250.0 x 101.0 x 44.5 / 9.8 x 4.0 x 1.8			mm / inch	
Weight		1,950			g	

Safety & EMC Compliance			
Parameter	Standard	Category	Comment
SAFETY	USA & Canada: UL 8750 Compliance to UL 1310 Class 2, UL 1012, UL 935		
	CAN/ CSA-22.2 No. 0. CSA-C22.2 No. 250.0	cUL	Pending
	Europe: EN 61347-1, EN61347-2-13	CE	Pending
EMI	Conducted emission Test & Radiated emission Test with 6 dB margin	EN55015	Pending
	Harmonic Distortion, Current Emission	EN61000-3-2	Pending
EMS	Voltage Flicker and Fluctuation	EN61000-3-3	Pending
	Electrostatic Discharge (ESD)	EN61000-4-2	Pending
	Radiated RFI	EN61000-4-3	Pending
	Fast Transients / Burst - EFT	EN61000-4-4	Pending
	Input Line Surge Immunity	EN61000-4-5	Pending
	Conducted RFI	EN61000-4-6	Pending
	Power Freq Magnetic Field	EN61000-4-8	Pending
	Voltage Dips	EN61000-4-11	Pending
	Electromagnetic Immunity Requirements Applied to Lighting Equipment	EN61547	Pending

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



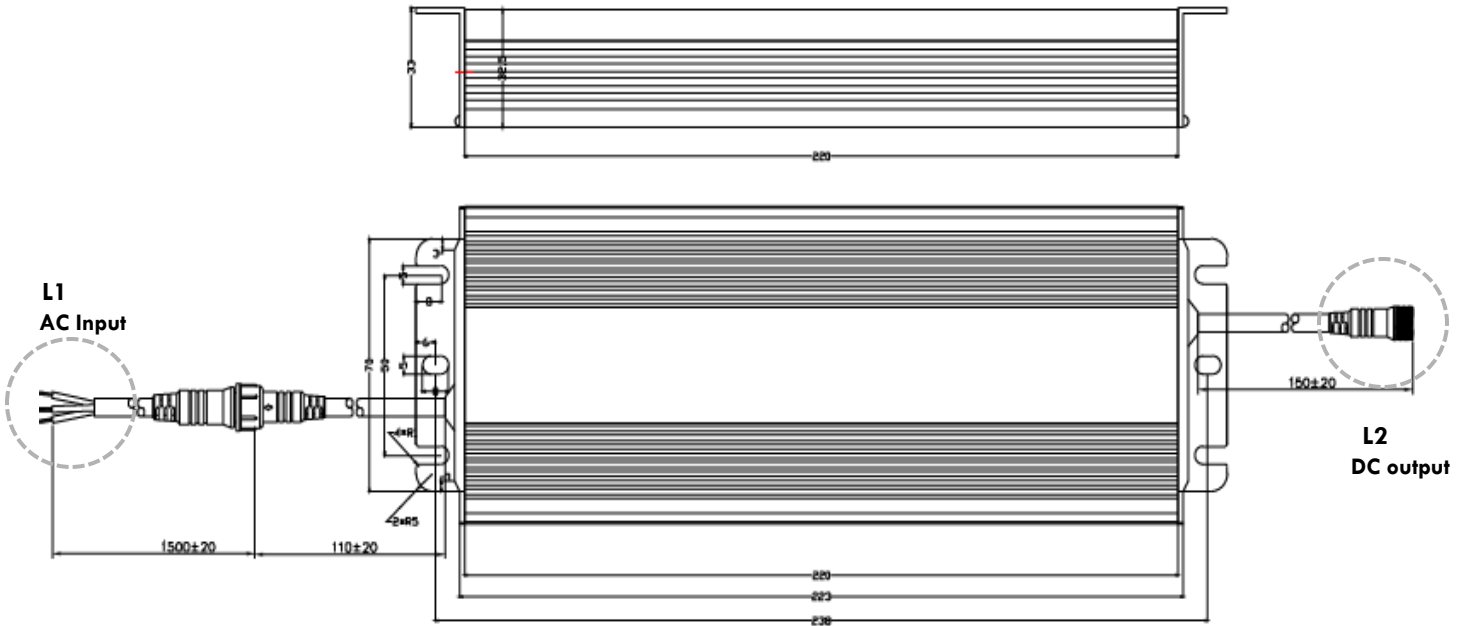
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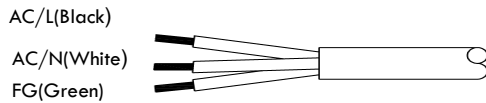
CC1C300ST

Dimension: (L x W x H)

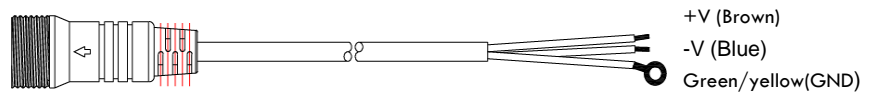
- 250.0 x 101.0 x 44.5 (mm) / 9.8 x 4.0 x 1.8 (inch)
- tolerance: ± 0.5 mm



**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 and 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.