

- Power the world with highest efficiency -

100W, MSL-100Y3 Series



- **Input Voltage /PFC:** 90 ~ 305 Vac / 0.95 (typical)
- **Output Wattage:** 100W, Constant Current – 3 channels
- Fully encapsulated with waterproof **IP67** level compliant,
- **Reliability Protections:** OVP, OTP, SCP
- **High Efficiency:** up to 89%
- **Safety Regulation:** Comply 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.	Output Voltage Range (V)	Output Current (A)	No. of Channel	OVP (Vmax.)	OTP (°C)	Efficiency (%)	Comment
MSL-T0650IC42.0-100Y3 (4)	36.0 - 42.0	0.65	3	55	110	89	
Note	(1) Comply with safety standard UL 8750 & EN61347 (2) Designed to meet UL 8750 & EN61347 safety standard, pending to agency certifications (3) Non-Class2 output (USR & CNR) compliant (4) Class2 output (USR), Non-Class2 output (CNR) (5) Class2 output (USA & CNR) compliant						

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	measured at 100Vac input, full load output			1.5	A	
Power Factor	At 100 - 277Vac Input	0.95				
Inrush Current	At 277Vac Input, 25°C cold start			100	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	
Voltage Over shoot / Under shoot	% of Vout when power turn on or off			10	%	
Turn-On Delay	Measured at 110Vac - 220Vac Input and Full Load			5	S	

General Specification						
Parameter	Conditions/Description	Min.	Normal	Max.	units	
Efficiency	Refer to individual models	90		92	%	
MTBF	Per MIL-HDBK-217F @ 25°C ambient Temperature, full load, 110Vac		300,000		Hours	
Operating/ Storage Temperature		-35 / -40		70 / 80	°C	
Dimension (L x W x H)		225.0 x 77.0 x 42.0 / 8.9 x 3.0 x 1.7			mm/ inch	
Weight		1,300			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	EN61000-4-4				
	Input Line Surge Immunity	EN61000-4-5				
	Conducted RFI	EN61000-4-6				
	Power Frequency 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				

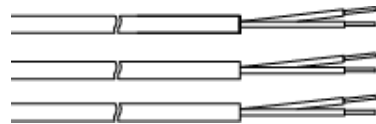
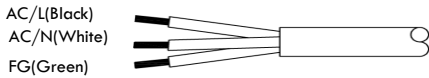
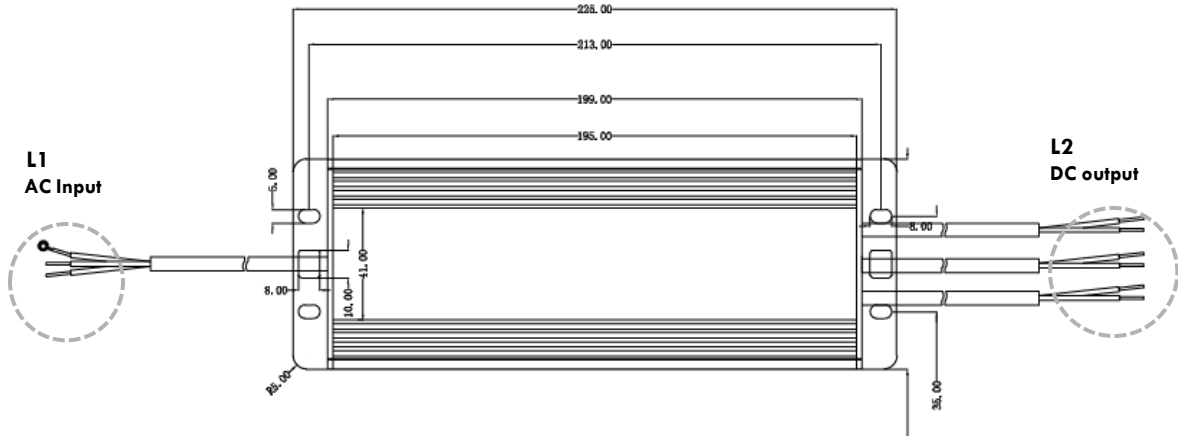
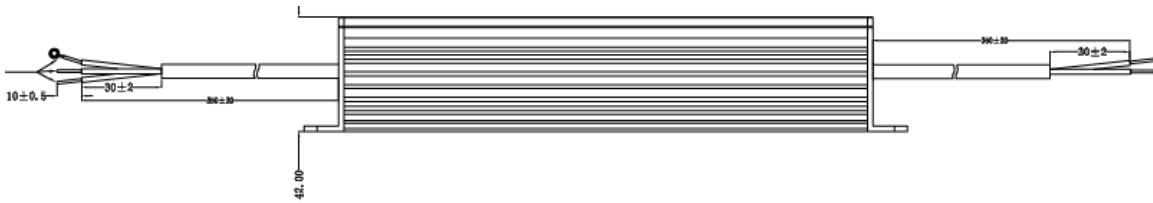


- Power the world with highest efficiency -

100W, MSL-100Y3 Series

Dimension: (L x W x H)

- 225.0 x 77.0 x 42 (mm) / 8.9 x 3.0 x 1.7 (inch)
- tolerance: ± 0.5 mm



Input wiring assembly

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

Output wiring assembly

- White(+), Black (-) / Red (+), Transparent (-)
- Blue (+), Yellow (-) – 680±60mm

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-T0650IC42.0-100Y3) 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.