

MOSO[®]

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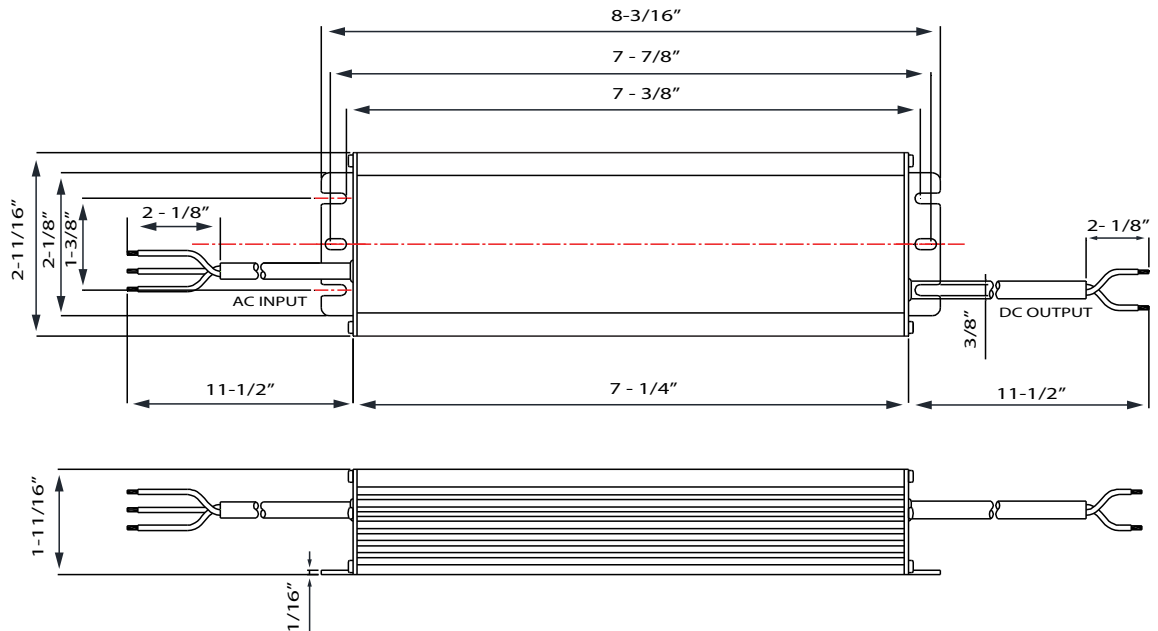
Characteristics



- **Constant Voltage Design (C.V. mode)**
- Protections:
 - Input surge
 - Output over current
 - Over voltage
 - Short circuit
 - Over temperature
- AC Input automatic voltage selection: 100-277Vac
- IP67 design for outdoor installations (Dry, damp, and wet locations)
- Suitable for LED lighting and moving sign applications
- Surge immunity: Line-Line 4KV, Line-Earth 6KV
- High power factor >0.95(277Vac & full load)
- Metal case
- Class P power unit
- Safety Standards: UL8750 recognized U.S and Canada Certified
- EMC Standards: FCC Part 15.



Physical



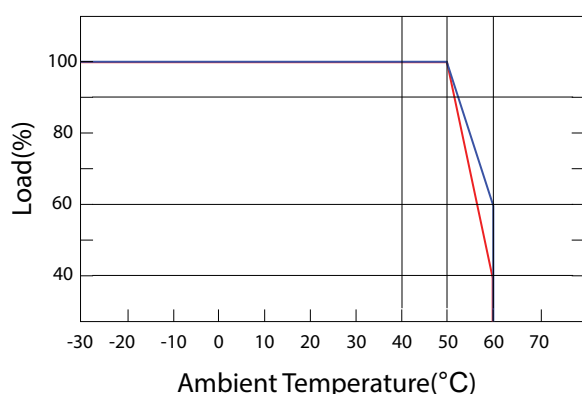
Dimension : 8.19" x 2.69" x 1.69" (LxWxH)

Weight : 2 Lb 3oz

Technical Details

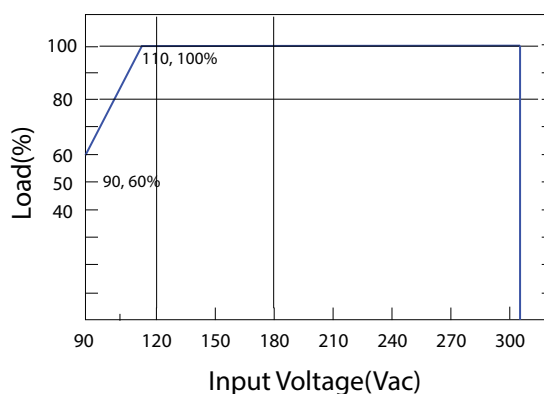
	ITEM	MS-LSV-150B012
INPUT	Voltage Range	AC 100~277V (Min. 90V)
	Frequency Range	50~60Hz
	Efficiency (Typ)	91%
	AC Current	2.0A Max. 100-277Vac & Full Load
	Inrush Current (Max.)	COLD START 75A/230VAC & Full Load
	Leakage Current	<0.75mA / 277VAC/60Hz
OUTPUT	DC Voltage	12V
	Rated Current	12.5A
	Rated Power	150W
	Ripple & Noise (max.) Note1	10%
	Output Overshoot	10%
	Output Current Tolerance	+/- 5% full load
	Line Regulation Note2	1%
	Load Regulation Note3	3%
PROTECTION	Turn-On Delay Time	1S/115Vac at full load, 0.5S/277Vac at full load
	Short Circuit	The input power shall decrease when the output rail short, the power supply shall not be damaged
	Over Current Note4	Hiccup mode: recovers automatically after fault condition is removed
	Over Voltage	1.1 - 1.3 Maximum load
OTHERS	Over Temperature	90°C (Temp. Sensor) Hiccup mode: output shall return to normal when faulty is removed
	Dimension/Weight	8.19" * 2.69" * 1.69" (L*W*H) 2 Lb - 3oz/pc
	NOTE	1. Full load, measured by 20 Mhz bandwidth oscilloscope and the output paralleled a 0.1F ceramic capacitor and a 10uF electrolytic capacitor 2. L25° C +/- 10°C ambient temperature, input voltage changes from 100-277Vac. 3. L25° C +/- 10°C ambient temperature, 230Vac input, load changes from 50% to 100% 4. The product will enter hiccup status when 1.1 - 1.3 maximum load current applied to the output, and the product shall be self-recovery when the fault condition is removed.

■ DERATING CURVE



115Vac
230Vac

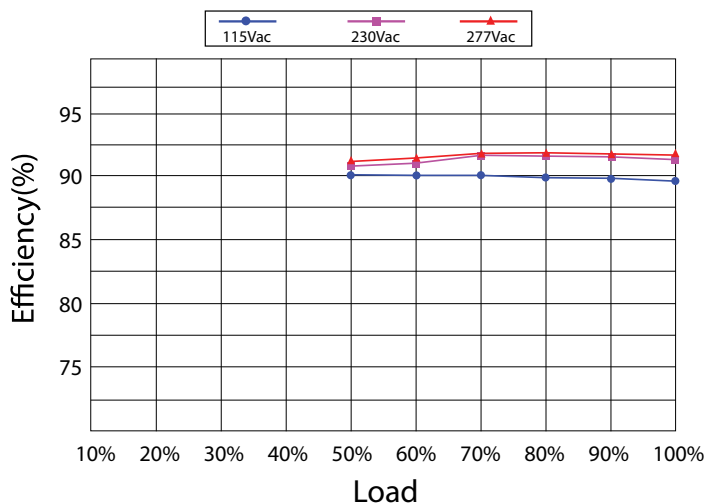
■ OUTPUT POWER VS INPUT VOLTAGE



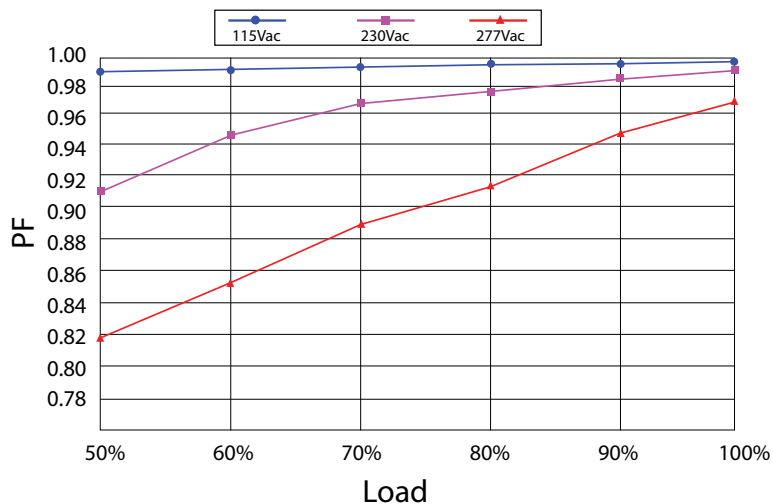
Ta=50°

Others Characteristics (Continued)

■ EFFICIENCY VS LOAD



■ POWER FACTOR VS LOAD CURVE



■ TOTAL HARMONIC DISTORTION VS LOAD CURVE

