

# MOSO<sup>®</sup>

Distributed by Sunlux

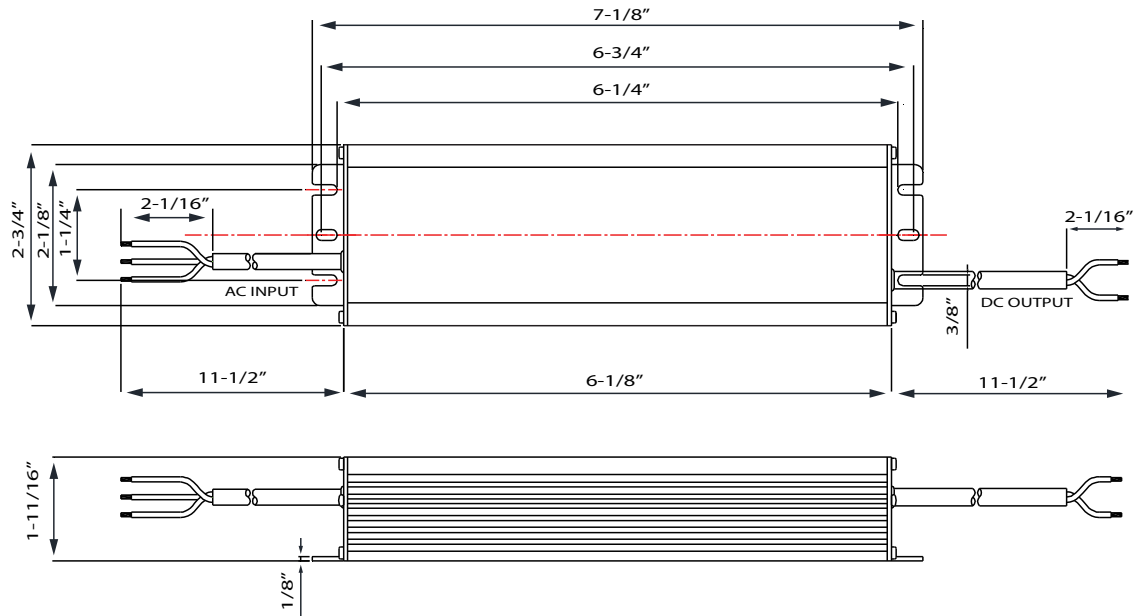


## Characteristics

- **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 5KV, Line-Earth 6KV
- High power factor >0.90(305Vac & full load)
- Metal case
- Class P power unit
- Safety Standards: UL8750 recognized U.S and Canada Certified
- EMC Standards: FCC Part 15.



## Physical



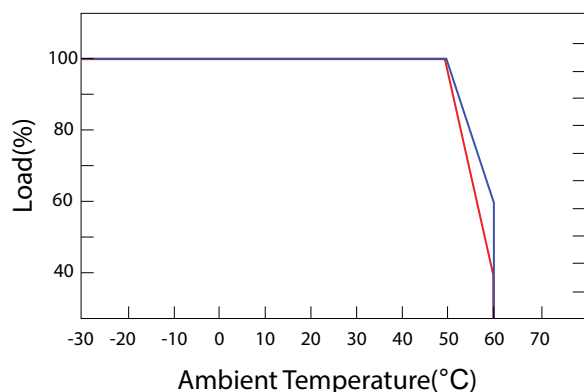
Dimension : 7-1/8" x 2-3/4" x 1-11/16" (LxWxH)

Weight : 1Lb 14oz

### Technical Details

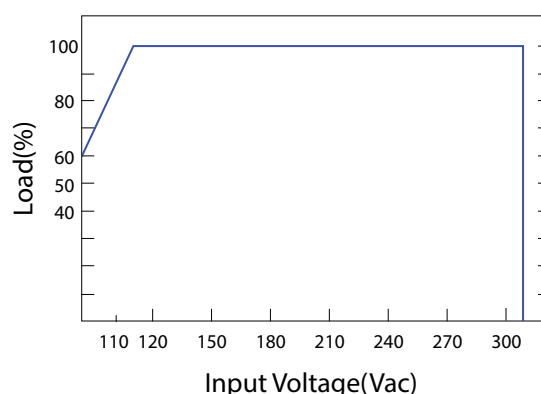
|            | ITEM                        | MS-LSV-100B024                                                                                                                                                                                                   |
|------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT      | Voltage Range               | AC 100~277V (Min. 90V)                                                                                                                                                                                           |
|            | Frequency Range             | 47~63Hz                                                                                                                                                                                                          |
|            | Efficiency (Typ)            | 91%                                                                                                                                                                                                              |
|            | AC Current                  | 1.5A Max. 100-277Vac & Full Load                                                                                                                                                                                 |
|            | Inrush Current (Max.)       | COLD START 75A/230VAC & Full Load                                                                                                                                                                                |
|            | Leakage Current             | <0.75mA / 277VAC                                                                                                                                                                                                 |
| OUTPUT     | DC Voltage                  | 24V                                                                                                                                                                                                              |
|            | Rated Current               | 4.17A                                                                                                                                                                                                            |
|            | Rated Power                 | 100W                                                                                                                                                                                                             |
|            | Ripple & Noise (max.) Note1 | 10%                                                                                                                                                                                                              |
|            | Output Overshoot            | 10%                                                                                                                                                                                                              |
|            | Output Current Tolerance    | +/- 5% full load                                                                                                                                                                                                 |
|            | Line Regulation Note2       | 3%                                                                                                                                                                                                               |
|            | Load Regulation Note3       | 3%                                                                                                                                                                                                               |
| PROTECTION | Turn-On Delay Time          | 3S/120Vac at full load, 1S/230Vac at full load                                                                                                                                                                   |
|            | Short Circuit               | The input power shall decrease when the output rail short                                                                                                                                                        |
|            | Over Current Note4          | Hiccup mode: recovers automatically after fault condition is removed                                                                                                                                             |
|            | Over Voltage                | 110~220% of rating                                                                                                                                                                                               |
|            | Over Temperature            | 90+/-10°C (Temp. Sensor) shuts off: recovers automatically after fault condition is removed                                                                                                                      |
| OTHERS     | Dimension/Weight            | 7.13" * 2.75" * 1.69" (L*W*H)    1 Lb - 14oz/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 90 to 305Vac.                                                                                                                                    |
|            | 3.                          | L25° C +/- 10°C ambient temperature, 230Vac input, load changes from 50% to 100%                                                                                                                                 |
|            | 4.                          | When the output voltage is over 110~200% rated load voltage, the driver shuts off automatically and enters protection status. The driver will work normally after fault condition removed and AC input re-apply. |

#### DERATING CURVE



115Vac  
230Vac

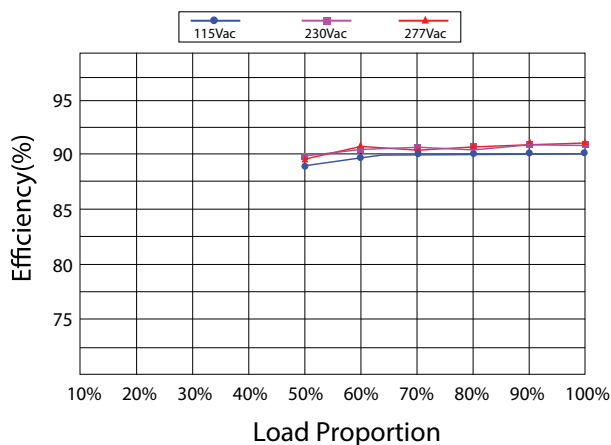
#### INPUT VOLTAGE VS LOAD



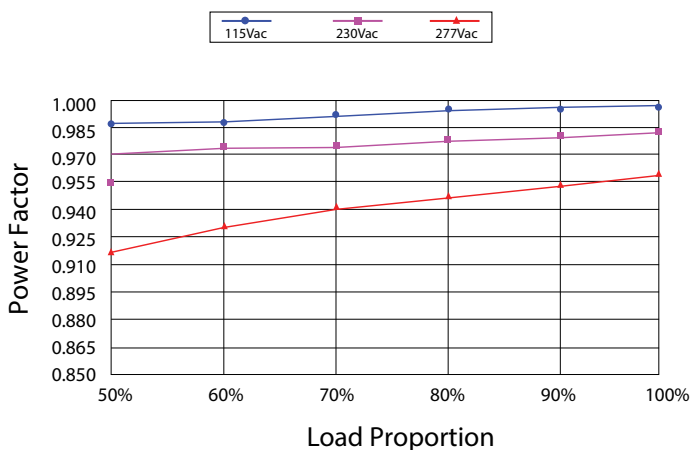
Ta=50°

### Others Characteristics (Continued)

#### ■ EFFICIENCY VS LOAD



#### ■ POWER FACTOR VS LOAD CURVE



#### ■ TOTAL HARMONIC DISTORTION VS LOAD CURVE

