

Model: GP-LS100P-36 1E

Features

- Universal AC Input, from 90 to 305VAC.
- Constant Current and Constant Voltage Modes.
- Active Power Factor Correction is Built In.
- Safety Protections: OVP / OCP / SCP / OTP.
- IP67 Rated for Protection from Water and Dust.
- Compliant With The ErP (EU) No. 1194/2012, Stage 3 Directives.
- Consumes Less Than 0.5W When The Unit has No Load.
- Takes Less Than 0.5 Seconds to Start Up at 230VAC.
- IP68 Waterproof Connectors for Convenient Maintenance .

Approvals

CE FC cULus IP67

SELV EQUIVALENT

Size

222 * 68 * 39 mm (L*W*H)

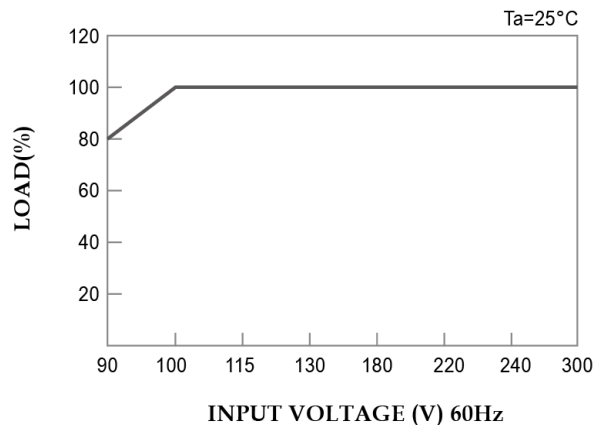
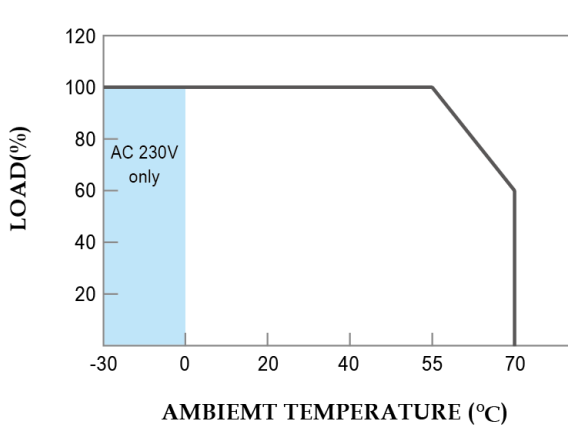


Specifications

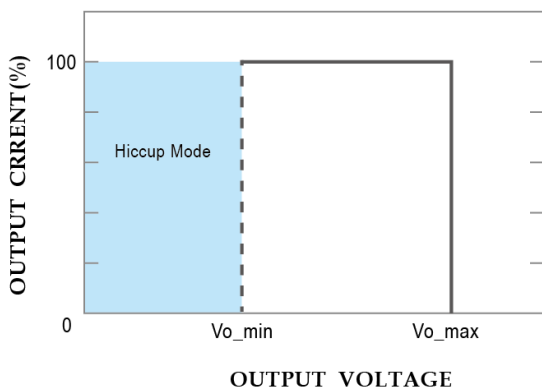
| Model No. | | GP-LS100P-36 1E |
|-------------|--|--|
| Output | DC Voltage | 40V |
| | Constant Current Region <i>Note.4</i> | 30-40V |
| | Rated Current | 2.5A |
| | Current Tolerance | ± 5% |
| | Rated Power | 100W |
| | Ripple & Noise (Max.) <i>Note.2</i> | 180mV |
| | Efficiency at 230Vac (Typ.) | 90.0% |
| | Voltage Tolerance <i>Note.3</i> | -1%~5% |
| | Set up time (Max.) | 0.5s / 230VAC, 1s / 115VAC, at full load. |
| Input | Voltage Range | 90 ~ 305VAC / 127 ~ 430VDC |
| | Frequency Range | 47 Hz ~ 63 Hz |
| | AC Current (Max.) | 1.4A at 115VAC / 0.7A at 230VDC |
| | Power Factor | >0.98 at 115VAC / >0.95 at 230VAC at full load (≥ 0.9 at 230 VAC at 75% load) |
| | THD | <20% |
| | No Load Consumption | <0.5W |
| | Inrush Current (Max.) | COLD START 50A at 230VAC |
| | Leakage Current | <0.75mA / 240 VAC |
| Protections | Over Current | 95~105% rated current. Type: Auto-recovery after fault condition disappeared. |
| | Short Circuit | Type: Hiccup mode & recovers after fault condition disappeared. |
| | Over Voltage | 45-56V Type: Latch mode (re-power on to recover). |
| | Over Temperature | Tcase: 95°C ± 10°C Type: Shutdown mode (re-power on to recover). |

| | | |
|--------------|--|--|
| Environment | Operation Temp. <small>Note.5</small> | -30°C ~70°C (Refer to output load derating curve) |
| | Operation Humidity | 20% ~ 90% RH non-condensing. |
| | Storage Temp. | -40 ~ +80°C |
| | Storage Humidity | 10% ~ 90% RH |
| | Vibration | 10~500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes. |
| Safety & EMC | Safety Standards | UL8750, EN61347-1, EN61347-2-13, independent; IP67 Approved. |
| | Withstand Voltage | I/P-O/P: 3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC |
| | Isolation Resistance | I/P-O/P,I/P-FG,O/P-FG:100M ohms / 500VDC at 25°C |
| | EMI Conduction & Radiation | Compliance to EN55015,FCC part 15 |
| | Harmonic Current | Compliance to EN61000-3-2 Class C ($\geq 75\%$ load),EN61000-3-3 |
| | EMS Immunity | Compliance to EN61000-4-2,3,4,5,6,11;EN61547, Light industry level, criteria A |
| Others | MTBF | 250K hours min. MIL-HDBK-217F(25°C) |
| | Dimension(L x W x H) | 222 x 68 x 39mm; 998g/pcs |
| Note | <p>1. All specifications not specially mentioned are measured at 230VAC and 25°C ambient temperature.</p> <p>2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.</p> <p>3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance.</p> <p>4. Constant current operation region is within 75%~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.</p> <p>5. Please refer to derating curve.</p> | |

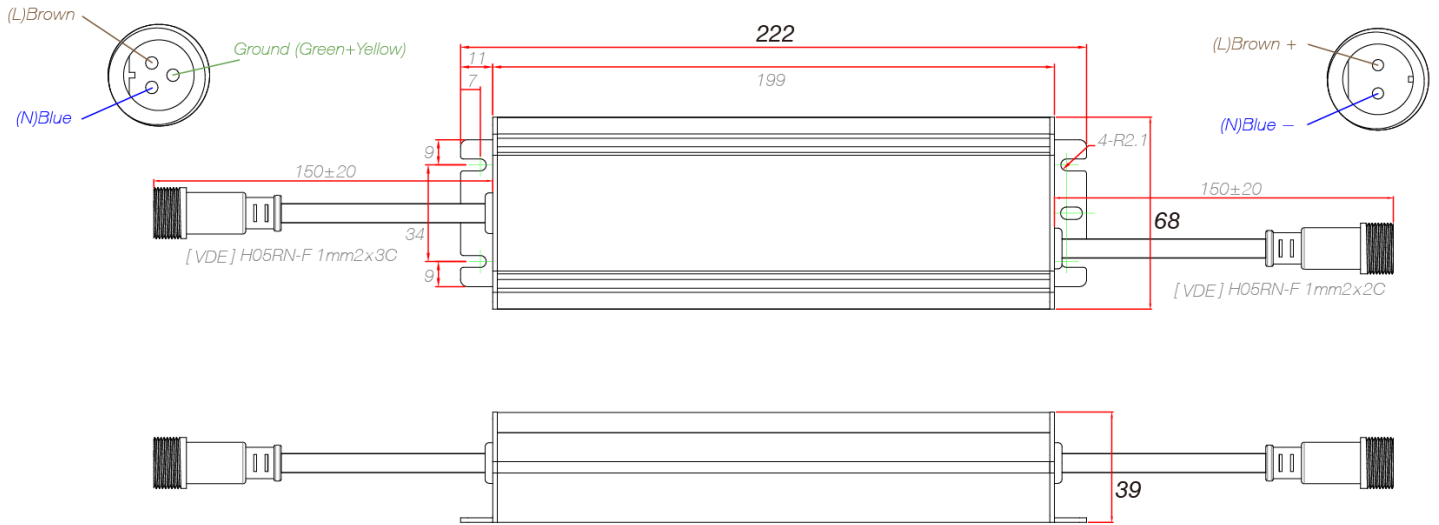
Derating Curve



Constant Voltage / Constant Current Curve



Mechanical Specification



Photo

