

## Model: GP-HS25P Series

### Features

- Universal AC Input 90~295VAC.
- Constant Voltage Operation.
- For High Brightness Light-Emitting Diode Products.
- Built-in PFC Function.
- Fully Isolated Plastic Case.
- Protections: OTP / SCP / OVP.
- THD < 20% at 240VAC/50Hz.
- Operation From -20°C ~50°C Full Load.
- Class 2 Power Supply Unit.
- IP67 Class.

### Approvals

CE FC cUL<sup>us</sup> SELV IP67



### Size

190 \* 30.5 \* 25 mm (L\*W\*H)

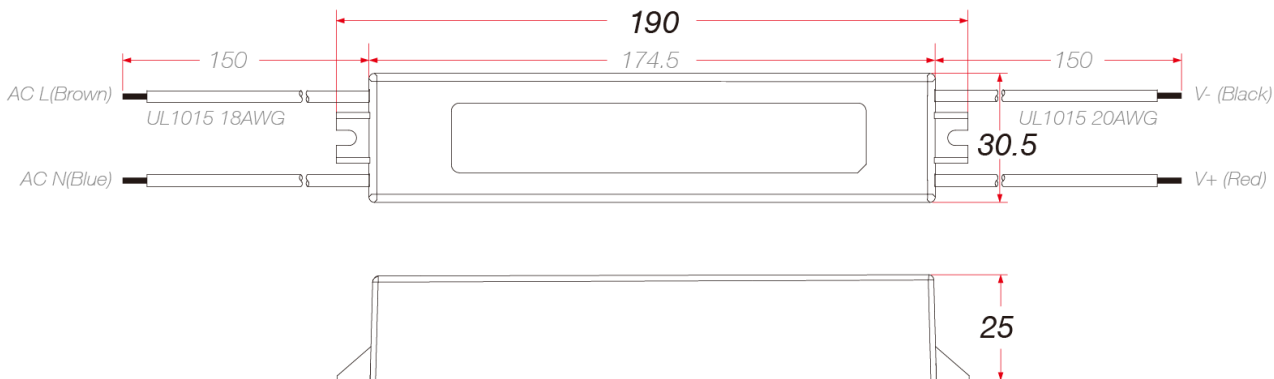


### Specifications

| Model No.   |                             | GP-HS25P-12V  | GP-HS25P-18V | GP-HS25P-24V | GP-HS25P-36V | GP-HS25P-48V | GP-HS25P-52V |  |
|-------------|-----------------------------|---|--------------|--------------|--------------|--------------|--------------|--|
| Output      | DC Voltage                  | 12V   | 18V          | 24V          | 36V          | 48V          | 52V          |  |
|             | Rated Current               | 0-2100mA  | 0-1400mA     | 0-1050mA     | 0-700mA      | 0-520mA      | 0-480mA      |  |
|             | Rated Power                 | 25.2W   | 25.2W        | 25.2W        | 25.2W        | 24.9W        | 24.9W        |  |
|             | Ripple & Noise (Max.)       | 3V  |              |              |              |              | 4V           |  |
|             | Efficiency at 240VAC (Typ.) | 82%   | 83%          | 84%          | 85%          | 83%          | 84%          |  |
|             | Voltage Tolerance           | ±5%   |              |              |              |              |              |  |
|             | Set up time (Max.)          | 2.5 Sec / 115VAC  |              |              |              |              |              |  |
| Input       | Voltage Range               | 90 ~ 295VAC   |              |              |              |              |              |  |
|             | Frequency Range             | 47 ~ 63 Hz  |              |              |              |              |              |  |
|             | AC Current (Max.)           | 0.4A at 120VAC / 0.2A at 240VAC   |              |              |              |              |              |  |
|             | Power Factor                | >0.98 at 120VAC / >0.9 at 240VAC / full load                              |              |              |              |              |              |  |
|             | Inrush Current (Max.)       | COLD START 20A at 264VAC  |              |              |              |              |              |  |
|             | Leakage Current             | <0.25mA / 230VAC  |              |              |              |              |              |  |
| Protections | Over Load                   | Over rated current then output voltage derating                           |              |              |              |              |              |  |
|             | Short Circuit               | YES, No Damage  |              |              |              |              |              |  |
|             | Over Voltage                | 110% ~ 150% Output Voltage  |              |              |              |              |              |  |
|             | Over Temperature            | Rth: By NTC define<br>Type: auto-recover mode                             |              |              |              |              |              |  |
| Environment | Operation Temperature       | -20°C ~50°C full load   |              |              |              |              |              |  |
|             | Operation Humidity          | 20% ~ 95% RH non-condensing   |              |              |              |              |              |  |
|             | Storage Temp.               | -40 ~ +80°C   |              |              |              |              |              |  |
|             | Storage Humidity            | 10% ~ 95% 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 ; IP65 Approved. |
|              | Withstand Voltage  | Meet I/P-O/P: 3.75KVAC  |
|              | Isolation Resistance   | Meet I/P-O/P:100M ohms / 500VDC at 25°C                       |
|              | EMI Conduction & Radiation   | Meet Compliance to EN55015,FCC part 15                        |
|              | Harmonic Current   | Meet Compliance to EN61000-3-2 Class C                        |
|              | EMS Immunity   | Meet Compliance to EN61000-4-2,3,4,5,6,11;EN61547             |
| Others       | MTBF   | 200K hours min. MIL-HDBK-217F(25°C)                           |
|              | Dimension(L x W x H)   | 190 x 30.5 x 25mm; 209g/pcs                                   |
| Note         | 1. All specifications not specially mentioned are measured at 230VAC and 25°C ambient temperature.<br>2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.<br>3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance. |   |

### Mechanical Specification



### Derating Curve

