

## Model: GP-HS35P-48C

### ■ Features

- Universal AC Input 90~305VAC.
- Constant Voltage / Constant Current Operation.
- For High Brightness Light-Emitting Diode Products.
- Built-in PFC Function.
- Fully Isolated Plastic Case.
- Protections: OVP / SCP / OTP.
- Operation From -20°C ~50°C Full Load.
- Class 2 Power Supply Unit.
- IP67 Class.

### ■ Approvals



SELV  
EQUIVALENT

### ■ Size

110 x 73.5 x 33 mm (L x W x H)

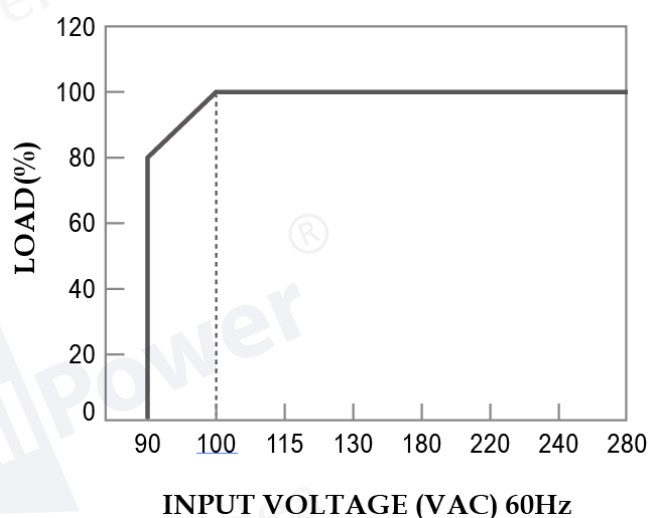
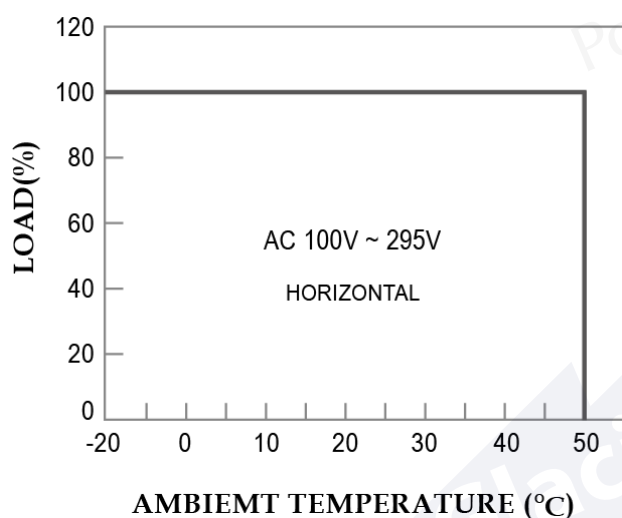


### ■ Specifications

| Model No.   |                                           | GP-HS35P-48C                                                                              |
|-------------|-------------------------------------------|-------------------------------------------------------------------------------------------|
| Output      | DC Voltage Range                          | 33 ~ 48V                                                                                  |
|             | Rated Current                             | 700mA                                                                                     |
|             | Rated Power                               | 33.6W                                                                                     |
|             | Ripple & Noise (Max.)                     | 250mV                                                                                     |
|             | Efficiency at 240VAC<br>Heat engine(Min.) | 83%                                                                                       |
|             | Current Tolerance                         | ±5%                                                                                       |
|             | Set up time (Max.)                        | 0.5 Sec / 230VAC / full load                                                              |
|             | No Load Consumption (Max.)                | < 0.5 W at 230VAC                                                                         |
| Input       | Nominal Voltage Range(TYP.)               | 100 ~ 277VAC                                                                              |
|             | Voltage Range(Min/Max)                    | 90 ~ 305VAC                                                                               |
|             | Frequency Range                           | 47 ~ 63 Hz                                                                                |
|             | AC Current (Max.)                         | 0.5A at 120VAC / 0.3A at 240VAC                                                           |
|             | Power Factor                              | >0.98 at 120 VAC/ full load / >0.95 at 240VAC / full load /<br>>0.9 at 277VAC / full load |
|             | Inrush Current (Max.)                     | COLD START 60A at 264VAC                                                                  |
|             | Leakage Current                           | <0.25mA / 230VAC                                                                          |
| Protections | Short Circuit                             | Type: Hiccup mode & recovers after fault condition disappeared.                           |
|             | Over Voltage                              | 115% ~ 135% Output Voltage<br>Type: Latch mode                                            |
|             | Over Temperature                          | Thermistor:105°C ± 10°C ( tc: 85°C ± 10°C)<br>Type: Latch 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 ; IP67 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)                                                                                                                                                                                                                                                                                                                | 110 x 73.5 x 33mm; 356g/pcs                                                |
| Note         | 1. All specifications not specially mentioned are measured at 240Vac 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. Current Tolerance: includes line regulation, load regulation and set-up tolerance. |                                                                            |

## ■ Derating Curve



## ■ Mechanical Specification

