

Model: GP-HS35P-48CA

■ Features

- Universal AC Input 90-305VAC.
- Constant Current Mode.
- Built-in Active PFC Function.
- Protections: OVP, SCP, OTP.
- 3-in-1 Dimming Function (DC 1-10 V, PWM, and Resistor).
- Fully Isolated Plastic Case.
- Operation From -20°C ~50°C Full Load.
- Class 2 Power Supply Unit.
- IP67 Rated.

■ Approvals



■ Size

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



■ Specifications

| Model No. | | GP-HS35P-48CA | |
|--------------------------------|------------------------------|--|--|
| Output | DC Voltage Range | 33 ~ 48V | |
| | Rated Current | 700mA | |
| | Rated Power | 33.6W | |
| | Ripple & Noise (Max.) note.2 | 250mV | |
| | Efficiency at 240VAC (Typ.) | 83% | |
| | Current Tolerance note.3 | ±5% | |
| | Dimming Control | PWM dimming: Puls: Hi=10V Low=0V, Duty:10%~100%, Fsw 0.5-3KHZ | |
| | | Analog Dimming Control: control by external voltage 1V ~ 10V DC | |
| Resistance Dimming:10K - 100KΩ | | | |
| Set up time (Max.) | 2 Sec / 120VAC / full load | | |
| 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 / >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 Type: Latch mode | |
| | Over Temperature | Thermistor:105°C ± 10°C (tc: 85°C ± 10°C) 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, EN61347-1:2015, EN61347-2-13:2014, 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 EN61547(EN61000-4-2,3,4,5,6,8,11) ; EN61000-3-2 , EN61000-3-3 |
| 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 | <ol style="list-style-type: none"> All specifications not specially mentioned are measured at 240VAC and 25 °C ambient temperature. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor. Current Tolerance: includes line regulation, load regulation and set-up tolerance. | |

■ **3-in-1 Dimming Control (DC/ PWM/ Resistance)**

3-in-1 Dimmable Function Description

(1) 0-100KΩ Resistance Dimmable (Typical):

| Resistor | Single-driver | 10K | 20K | 30K | 40K | 50K | 60K | 70K | 80K | 90K | 100K |
|----------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | Multi-driver | 10K/N | 20K/N | 30K/N | 40K/N | 50K/N | 60K/N | 70K/N | 80K/N | 90K/N | 100K/N |
| Iout (%) | | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |

※ The length of extended wire for DIM+/- shall not exceed 20 meters. (Wire ≤ 20m)

※ N=The number of dimmer drivers should not exceed 15.(N ≤ 15)

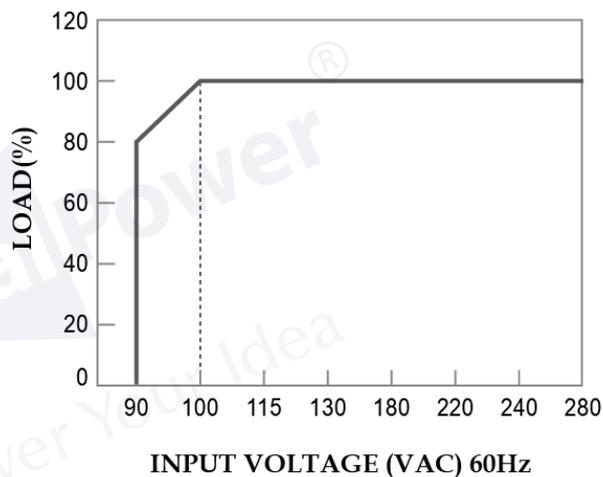
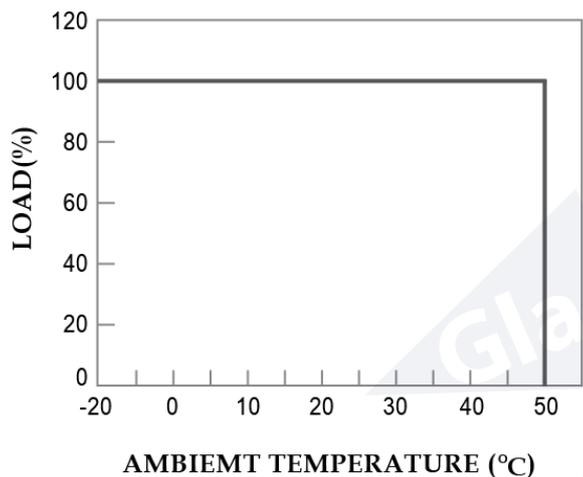
(2)DC: 0-10V Dimmable (Typical):

| DIM(Voltage) | 1V | 2V | 3V | 4V | 5V | 6V | 7V | 8V | 9V | 10V |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Iout (%) | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |

(3)10V / PWM Dimmable (Typical):

| DIM(10V/PWM Duty) | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Iout (%) | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |

■ Derating Curve



■ Specification

