

Model: GP-HS60P-42C1

Features

- Universal AC Input 90 ~ 305VAC.
- Constant Current Operation.
- Suitable for High Brightness LED Products.
- Built-in Active PFC Function.
- Protections: OVP / OCP / SCP / OTP.
- Class II/2 Power.
- IP67 Class.
- THD < 20% at 230VAC.
- Meet Application for ErP EU_1194_2012,Stage 3.
- No Load Consumption < 0.5W.
- Set up Time < 0.5 Sec at 230VAC.

Approvals



Size

163 * 44.2 * 32.5 mm (L*W*H)

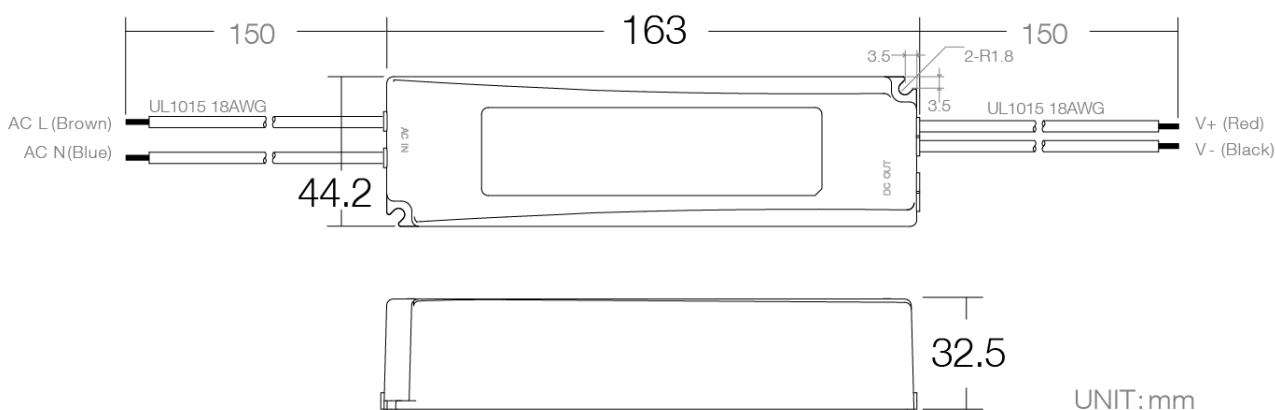


Specifications

Model No.		GP-HS60P-42C1
Output	DC Voltage	42V
	Constant Current Region (Note4)	28 ~ 42V
	Rated Current	1.4A
	Current Tolerance	± 5%
	Rated Power	58.8W
	Ripple & Noise (Max.)	250mV
	Efficiency at 240VAC(Typ.)	87%
	Voltage Tolerance	-1% ~ +5%
	Set up time (Max.)	< 0.5 Sec / 230Vac / full load
	No Load Consumption (Max.)	< 0.5W at 230VAC
Input	Voltage Range	90 ~ 305VAC
	Rated Voltage	100 ~ 240VAC / 277VAC (for North America Only)
	Frequency Range	47 Hz ~ 63 Hz
	AC Current (Max.)	0.8A at 100~240VAC/ 0.4A at 277VAC (for North American Only)
	Power Factor	≥ 0.98 at 120VAC / ≥ 0.94 at 240VAC/ ≥ 0.92 at 277VAC, at full load
	Inrush Current (Max.)	Cold Start 70A at 240VAC
	Leakage Current	<0.5mA / 240VAC
Protections	Over Current	95 ~ 105% rated current. Type: Auto-recovery after fault condition disappeared.
	Short Circuit	Type: Hiccup and recovers after fault condition disappeared.
	Over Voltage	46.2~54.6V Type: Latch mode (Re-power on to recover).
	Over Temperature	RT2: 105 ± 10°C Type: Latch mode (Re-power on to recover).
Environment	Operation Temp.	-30°C ~50°C (Refer derating curve)
	Operation Humidity	20% ~ 90% RH non-condensing.
	Storage Temp.	-40 ~ +60°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	EN61347-1, EN61347-2-13 , Independent; IP67 Approved.
	Withstand Voltage	I/P - O/P: 3750VAC
	Isolation Resistance	I/P-O/P:100M ohms / 500VDC at 25°C
	EMI Conduction & Radiation	Compliance to EN55015,FCC part 15
	Harmonic Current	Compliance to EN61000-3-2 Class C,EN61000-3-3
	EMS Immunity	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)	163 x 44.2 x 32.5mm; 371g/pcs
Note	1. All specifications not specially mentioned are measured at 240VAC and 25°C ambient temperature. 2. Ripple & Noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 10uf parallel capacitor. 3. Voltage Tolerance: includes line regulation, load regulation and set-up tolerance. 4. Constant current operation region is the suitable operation region for LED related applications, but please reconfirms special electrical requirements for some specific system design. 5. Please refer to derating curve.	

Mechanical Specification



Derating Curve

