



HLG-60H-15

60W Single Output Switching Power Supply



HLG-60H-15 is a 60W single output switching power supply, this product allows the universal AC input voltage range of 90~305VAC or 127~431VDC. Designed with IP67/IP65 for outdoor and indoor installations and provide fundamental resistance to moisture and dust.

- ▶ Universal AC input / Full range (up to 305VAC)
- ▶ Built-in active PFC function
- ▶ Protections: Short circuit / over current / over voltage / over temp.
- ▶ Cooling by free air convection
- ▶ IP67/IP65 design for indoor or outdoor installations
- ▶ Class 2 power unit

Technical Specifications

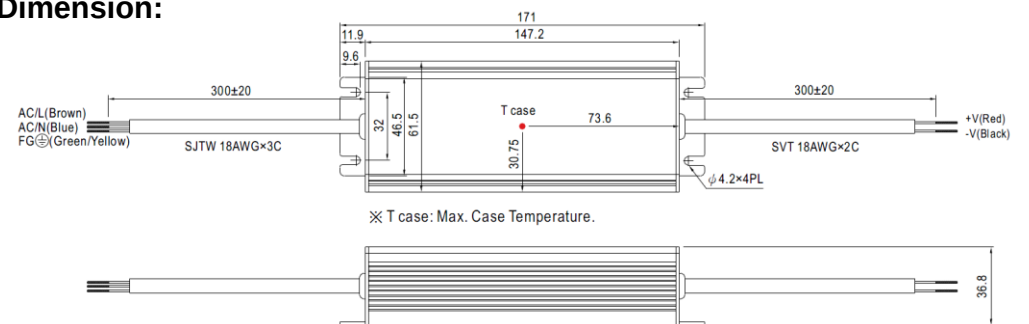
60W Single Output Switching Power Supply

Model#
HLG-60H-15

Output		
DC voltage	15V	
Constant current region	9~15V	
Rated current	4A	
Rated power	60W	
Ripple & noise (max.)	150mVp-p	
Voltage ADJ. range	13.5~17V	
Current ADJ. range	2.4~4A	
Voltage tolerance	±2.0%	
Line regulation	±0.5%	
Load regulation	±1.5%	
Setup, rise time	500ms, 80ms at full load	230VAC / 115VAC
Hold up time	16ms/230VAC	16ms/115VAC at full load

Input	
Voltage range	90 ~ 305VAC 127 ~ 431VDC
Frequency range	47 ~ 63Hz
Power factor	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load
Total harmonic distortion	THD< 20% when output loading $\geq$ 60% at 115VAC/230VAC input and output loading $\geq$ 75% at 277VAC input
Efficiency	87.5%
AC current	0.64A / 115VAC 0.32A / 230VAC 0.3A / 277VAC
Inrush current	COLD START 55A(twidth=265 s measured at 50% I _{peak}) at 230VAC
Max. No. of PSUs on 16A circuit breaker	9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC
Leakage current	<0.75mA / 277VAC

Dimension:



Environment	
Working temperature	-40 ~ +70℃
Working humidity	20~95% RH non-condensing
Storage temp., humidity	-40~+85℃, 10~95% RH
Temp. coefficient	±0.03%/℃ (0~60℃)
Vibration	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes

Protection	
Over current	95~108%
	Protection type : Constant current limiting, recovers automatically after fault condition is removed
Short circuit	Hiccup mode, recovers automatically after fault condition is removed
Over voltage	18~24V
	Protection type : Shut down o/p voltage, re-power on to recover
Over temperature	Shut down o/p voltage, re-power on to recover

Safety & EMC	
Safety standards	UL8750(type"HL"), CSA C22.2 No. 250.0-08 (except for 48V, 54V), EN61347-1, EN61347-2-13 independent, IP65 or IP67, J61347-1, J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1, EN60335-1
Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH
EMC emission	Compliance to EN55015, EN61000-3-2 Class C ($\geq 60\%$ load) ; EN61000-3-3
EMC immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A

Others	
MTBF	338Khrs min. MIL-HDBK-217F (25℃)
Dimension	171*61.5*36.8mm (L*W*H)
Packing	0.73Kg; 20pcs/15.6Kg/0.8CUFT