

HLG-80H-48

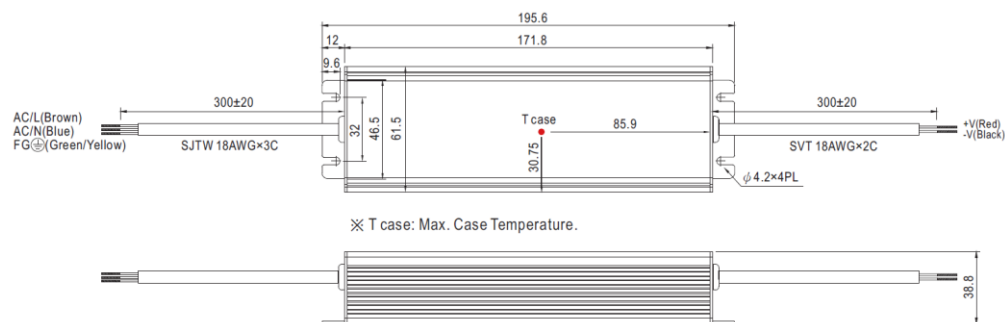
80W Single Output Switching Power Supply



HLG-80H-48 is an 80W single output switching power supply featuring built-in active PFC function. The design of housing with IP67/IP65 ingress protection level allows this machine to fit both indoor and outdoor applications. HLG-80H-48 is equipped with various function options.

- ▶ Universal AC input / Full range (up to 305VAC)
- ▶ Built-in active PFC function
- ▶ Cooling by free air convection
- ▶ OCP point adjustable through output cable or internal potentiometer
- ▶ IP67/IP65 design for indoor or outdoor installations
- ▶ Suitable for dry / damp / wet locations

Dimension:



Technical Specifications

80W Single Output Switching Power Supply

Model#
HLG-80H-48

Output	
DC voltage	48V
Constant current region	28.8~48V
Rated current	1.7A
Rated power	81.6W
Ripple & noise (max.)	200mVp-p
Voltage ADJ. range	43~53V
Current ADJ. range	Can be adjusted by internal potentiometer A type only 1.02~1.7A
Voltage tolerance	±1.0%
Line regulation	±0.5%
Load regulation	±0.5%
Setup, rise time	1200ms,80ms/115VAC 500ms,80ms/230VAC at full load ; B type 1200ms,200ms/115VAC 500ms,200ms/230VAC at 95% load
Hold up time	16ms at full load 230VAC /115VAC

Input	
Voltage range	90~305VAC 127~431VDC
Frequency range	47~63Hz
Power factor	PF>0.96/115VAC, PF>0.96/230VAC, PF>0.94/277VAC at full load
Total harmonic distortion	THD< 20% when output loading ≥ 60% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC input
Efficiency	91%
AC current	0.85A / 115VAC 0.425A / 230VAC 0.4A / 277VAC
Inrush current	COLD START 70A(twidth=485µs measured at 50% Ipeak) at 230VAC
Max. No. of PSUs on 16A circuit breaker	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC
Leakage current	<0.75mA / 277VAC

Environment	
Working temperature	-40~+70℃
Working humidity	20~95% RH non-condensing
Storage temp., humidity	-40~+80℃, 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	54~63V 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 HLG-80H-48/54V & HLG-80H-48/54BL), UL8750 listed for HLG-80H-BL EN61347-1, EN61347-2-13 independent, J61347-1, J61347-2-13, IP65 or IP67 approved ; Design refer to UL60950-1, TUV EN60950-1
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 (≥ 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 B

Others	
MTBF	357.8Khrs min. MIL-HDBK-217F (25℃)
Dimension	195.6*61.5*38.8mm (L*W*H)
Packing	0.84Kg; 16pcs/14.4Kg/0.54CUFT