

HLG-120H-54

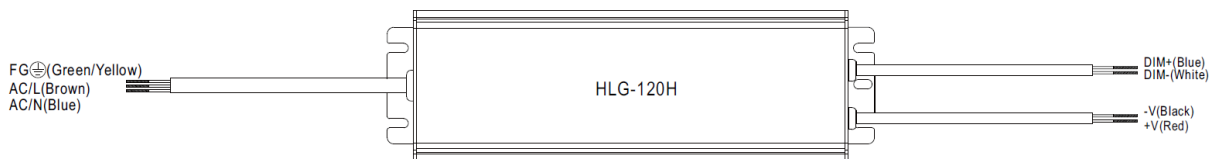
120W Constant Voltage + Constant Current LED Driver



HLG-120H-54 is a 120W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-120H-54 operates from 90~305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 93.5%, with the fanless design, the machine is able to operate for -40℃~+80℃ case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this machine to fit both indoor and outdoor applications. HLG-120H-54 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

- ▶ Constant voltage + constant current mode output
- ▶ Metal housing
- ▶ Built-in active PFC function
- ▶ IP67 / IP65 rating for indoor or outdoor installations
- ▶ Function options: output adjustable via potentiometer; 3 in 1 dimming

Dimension:



Technical Specifications

120W Constant Voltage + Constant Current LED Driver

Model#
HLG-120H-54

Output	
DC voltage	54V
Constant current region	27~54V
Rated current	2.3A
Rated power	124.2W
Ripple & noise (max.)	200mVp-p
Voltage ADJ. range	Adjustable for A-Type only (via built-in potentiometer) 49~58V
Current ADJ. range	Adjustable for A-Type only (via built-in potentiometer) 1.1~2.3A
Voltage tolerance	±1.0%
Line regulation	±0.5%
Load regulation	±0.5%
Setup, rise time	1200ms,50ms/115VAC 500ms,50ms/230VAC
Hold up time	12ms / 115VAC, 230VAC

Input	
Voltage range	90~305VAC 127~431VDC
Frequency range	47~63Hz
Power factor	PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.93/277VAC @ full load
Total harmonic distortion	THD< 20% (@ load ≥ 50% / 115VAC,230VAC; @ load ≥ 75% / 277VAC)
Efficiency	93.5%
AC current	1.4A / 115VAC 0.6A / 230VAC 0.55A / 277VAC
Inrush current	COLD START 60A(twidth=375 s measured at 50% Ipeak) at 230VAC; Per NEMA 410
Max. No. of PSUs on 16A circuit breaker	5 units (circuit breaker of type B) / 9 units (circuit breaker of type C) at 230VAC
Leakage current	<0.75mA / 277VAC

Environment	
Working temperature	Tcase= -40~+80℃
Max. case temperature	Tcase= +80℃
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% Constant current limiting, recovers automatically after fault condition is removed
Short circuit	Constant current limiting, recovers automatically after fault condition is removed
Over voltage	59~65V Shut down o/p voltage with auto-recovery or re-power on to recovery
Over temperature	Shut down o/p voltage, recovers automatically after temperature goes down

Safety & EMC	
Safety standards	UL8750(type"HL"), CSA C22.2 No. 250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-1, J61347-2-13 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, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (@ load ≥ 50%) ; EN61000-3-3
EMC immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)

Others	
MTBF	192.2K hrs min. MIL-HDBK-217F (25℃)
Dimension	220*68*38.8mm (L*W*H)
Packing	1.12Kg; 12pcs/14.4Kg/0.8CUFT