HGPOWER®

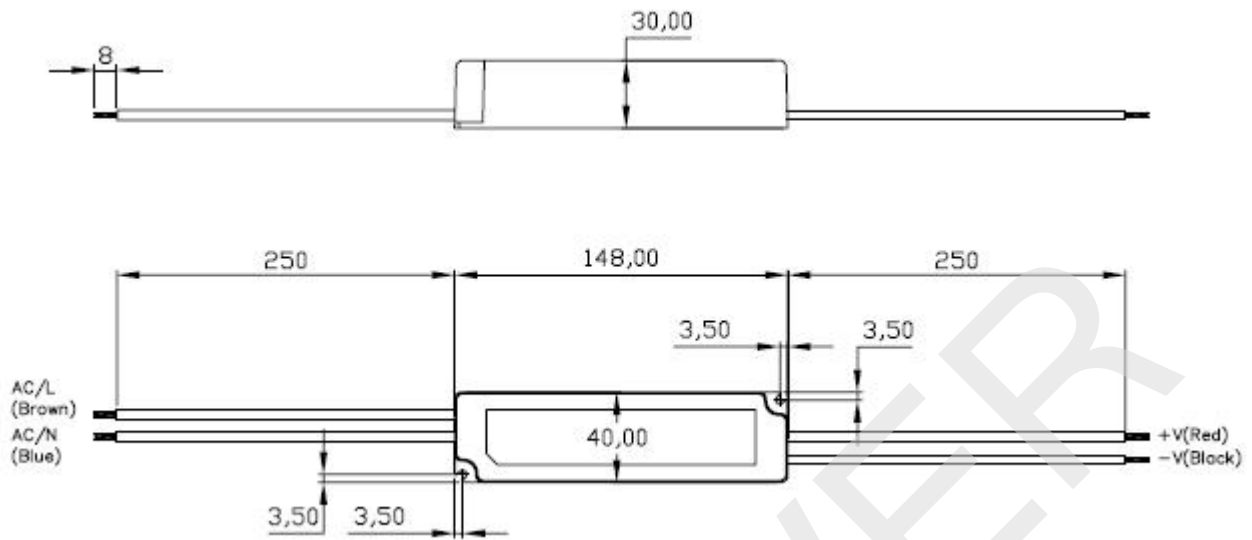## 50W Single Output Constant Voltage

LV50 Series

Features :

■ Constant voltage mode power supply
■ Universal AC input / Full range
■ Fully encapsulated with IP67 level
■ Protections:Short circuit / Over Voltage
■ Small and compact size
■ Class 2 power unit
■ 100% full load burn-in test
■ Suitable for LED lighting and moving sign applications
■ 2 years warranty

SPECIFICATION:

MODEL		LV50-12	LV50-24
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURRENT	4.2A	2.1A
	CURRENT RANGE	0～4.2A	0～2.1A
	RATED POWER	50W	50W
	RIPPLE & NOISE (max.)	100mVp-p	200mVp-p
	VOLTAGE TOLERANCE	±3.0%	
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±2.0%	
	SETUP,RISE TIME	500ms,250ms/230VAC 500ms,250ms/115ac at full load	
	HOLD UP TIME (Typ.)	50ms/230VAC 24ms/115VAC at full load	
INPUT	VOLTAGE RANGE	100-240VAC	
	FREQUENCY RANGE	47～63Hz	
	EFFICIENCY (Typ.)	82% full load	84% full load
	AC CURRENT	1.2A/100VAC 0.60A/200A	
	INRUSH CURRENT(max.)	COLD STAT 70A/230VAC 35A/115VAC	
	LEAKAGE CURRENT	0.25mA/240VAC	
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.	
	OVER VOLTAGE	Above 13-20V	Above 25-36V
ENVIRONMENT	WORKING TEMP.	-10～50℃	
	WORKING HUMIDITY	20～90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40～80℃, 10～95% RH	
	TEMP.COEFFICIENT	±0.03%/℃ (0～50℃)	
	VIBRATION	10～500Hz, 2G 10min./1cycle, period for 60min. each along X,Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	Design refer to UL1310 Class 2,TUV EN62368-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91, meet IP67	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25～70% RH	
	EMI CONDUCTION & RADIATION	Compliance to EN55032:2015+A11:2020	
DIMENSION		148*40*30mm (L*W*H)	

Mechanical Specification

Block Diagram