



### Features :

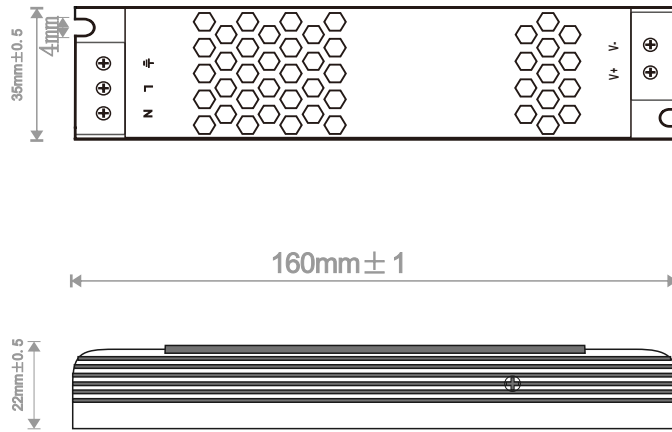
- High operating temperature up to 60°C
- Protection: Short circuit/overload/over voltage
- Cooling by free air convection
- High efficiency, long life and high reliability
- 100% full load burn-in test
- 3 years warranty

### Specification

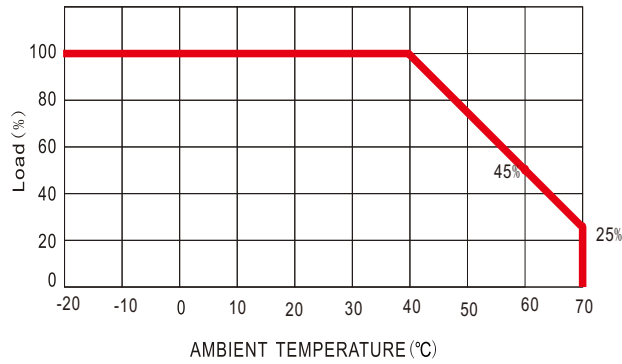
CE RoHS BIS SELV IP20

	Model	HRL-60-12	HRL-60-24
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	
	Rated Current	0 – 5A	0 – 2.5A
	Rated Power	60W	60W
	Ripple & Noise	120mVp-p	200mVp-p
Input	Voltage Range	100-264VAC	
	Frequency Range	50 – 60HZ	
	Power Factor	PF≥0.5/220VAC ( Full loading )	
	Full Load Efficiency(Typ.)	83.8% (230AC)	89% (230AC)
	AC Current (Max.)	0.8A/100AC, 0.52A/230VAC	
	Leakage current	< 0.75mA/260VAC	
	Inrush current	≤ 40A	
Protection	Short Circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed.	
	Over Load	Hiccup mode, recovers automatically after fault condition is removed	
	VIBRATION	10-500Hz 2G10min	
	BURNT-IN TEST	Input voltage: 220V 50Hz rated output current 25°C Bum-in 2h	
Environment	Over temperature	100°C±10°C shut down o/p voltage, re-poweron to recover	
	Working TEMP.	-20 ~ + 50°C	
	Working Humidity	20~60%RH,non-condensing	
	Storage TEM.,Humidity	-20~+ 85%, 10~95%RH	
	START RISE HOLD TIME	500ms, 20ms, 50ms/230VAC at full load	
Safety & EMC	Vibration	10 – 500Hz, 5G 12min./1 cycle, period for 60min.each along X,Y,Z axes.	
	Safety standards	CE Mark	
	Withstand voltage	I/P–O/P:1.5KVAC I/P–GND:1.5KVAC	
	EMC Immunity	EN55015:2013;EN61547:2009; EN61000-3-2:2014; EN61000-3-3:2013	
Others	Weight	0.12Kg	
	Dimension	160x35x22mm(LxWxH)	
	Packing	100pcs/CTN	
Notes	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input , rated load and 25°C of ambient temperature.</li> <li>2. Tolerance: includes set up tolerance, line regulation and load regulation .</li> <li>3. The power supply is considered as a component that will be operated in combination with final Equipment. Since EMC performance will be affected by the complete installation, the final equipment manufactures must be-qualifyEMC Directive on the complete installation again.</li> </ol>		

**Mechanical Specification**



**Derating Curve**



**Package**

DIMENSION	160x35x22mm(LxWxH)
CARTON QUANTITY	100pcs/CTN
CARTON SIZE	39.4x28.7x16.8(cm)
WEIGHT	0.12Kg