



■ Features

- Over international AC input voltage available (85-265Vac)
- Built-in active PFC function
- Constant current design
- Protections: Short circuit, open circuit, over-load, over-current
- IP30 design
- High reliability, low cost
- 3 years warranty

■ Applications

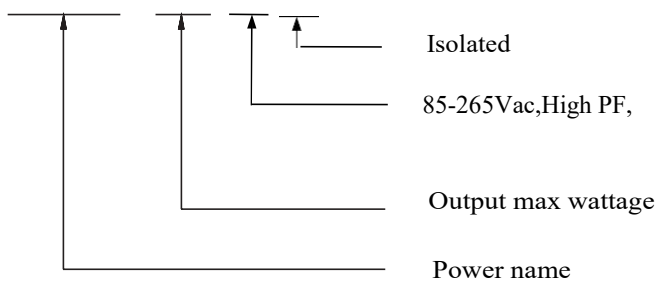
- Indoor LED lighting
- LED office lighting
- LED commercial lighting
- LED decorative lighting

■ Description

HZD060 series is a 48W-60W economical AC/DC LED power supply series. Incorporating a built-in active PFC design, It provides a high Power Factor value . In addition, with no-load low power consumption be less than 0.5W ,and the setup time less than 500ms. According to customer request adjust output current max up to 1200mA .

■ Model Encoding

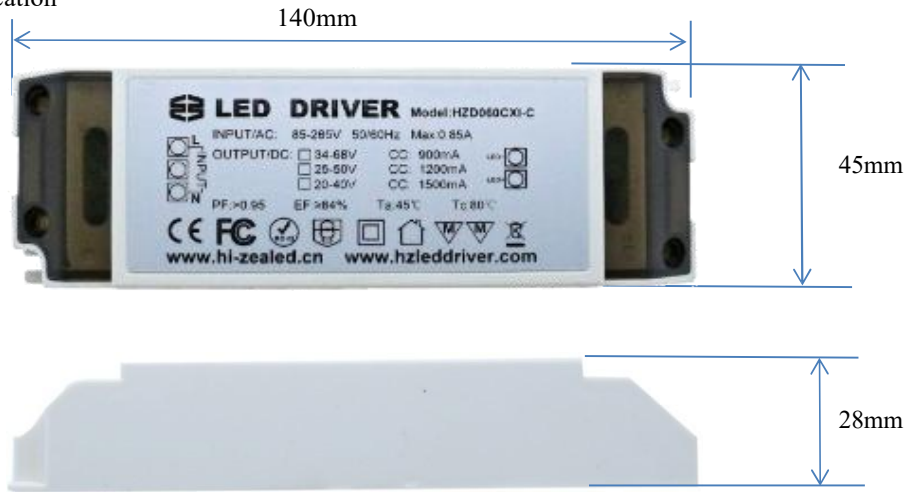
HZD 060 C XI-C



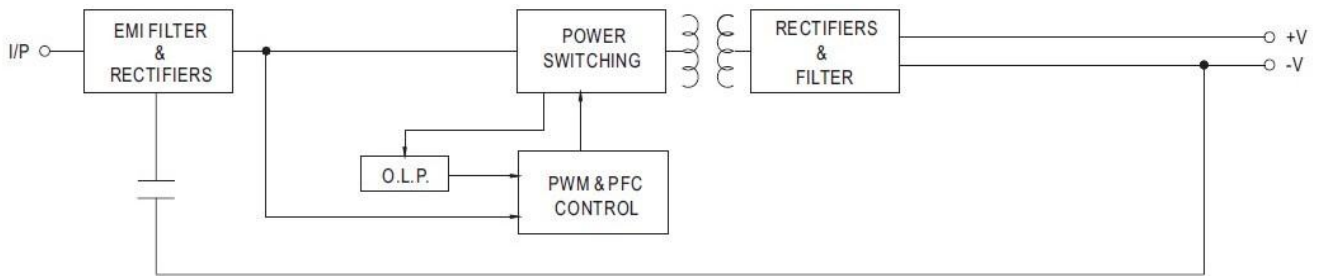
SPECIFICATION SHEET

MODEL		HZD060CXI-C-900	HZD048CXI-C-1200	HZD048CXI-C-1500		
OUTPUT	RATED CURRENT	900mA	1200mA	1500mA		
	OPERATING VOLTAGE RANGE Note.5	34~68V	24~50V	20~40V		
	CURRENT ACCURACY Note.3	3.00%				
	RATED POWER	60W	60W	60W		
	RIPPLE & NOISE (max.) Note.2	<5%	<5%	<5%		
	NO LOAD OUTPUT VOLTAGE (max.)	No-load overvoltage protection	No-load overvoltage protection	No-load overvoltage protection		
	SETUP TIME	500ms / 220VAC at full load;				
INPUT	VOLTAGE RANGE Note.4	85~ 265VAC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF≥0.95/220VAC,PF>0.92/265VAC(at full load)(Please refer to "Power Factor Characteristic" curve)				
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≤70%				
	EFFICIENCY (Typ.)	≥88%	≥86%	≥84%		
	AC CURRENT (Ful.)	0.25A/220VAC	0.25A/220VAC	0.25A/220VAC		
	INRUSH CURRENT(Typ.)	Max 45A (twidh=75μs measured at full load) at 220VAC				
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.				
	OVER TEMPERATURE	Hiccup mode, recovers automatically after temperature goes down.				
ENVIRONMENT	WORKING TEMP.	-30 ~ +40℃				
	WORKING HUMIDITY	20 ~ 70% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH				
SAFETY & EMC	SAFETY STANDARDS	EN61347-1: 2008+A1:2011+A2: 2013 EN61347-2-13:2006				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH				
	EMC EMISSION	EN55015:2013/A1:2015; EN61000-3-2:2014; EN61000-3-3:2013				
	EMC IMMUNITY	EN61547: 2009 light industry level, criteria B (Surge 2KV)				
OTHERS	DIMENSION	140*45*28MM (L*W*H)				
	PACKING	0.137Kg;100pcs/14.8kg/0.041m ³				
NOTE	<p>1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25℃ of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Please see AC input voltage drop vs. output current characteristics table.</p> <p>4. Derating may be needed under low input voltage, please check the static characteristic for more details.</p> <p>5. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.</p> <p>6. 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 manufacturers must re-qualify EMC Directive on the complete</p> <p>7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.</p>					

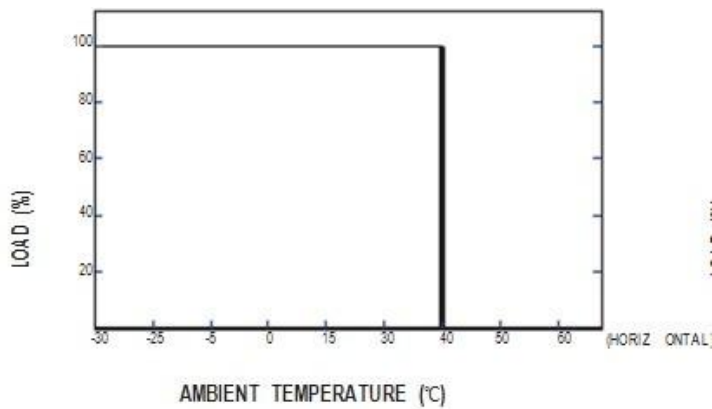
■ Mechanical Specification



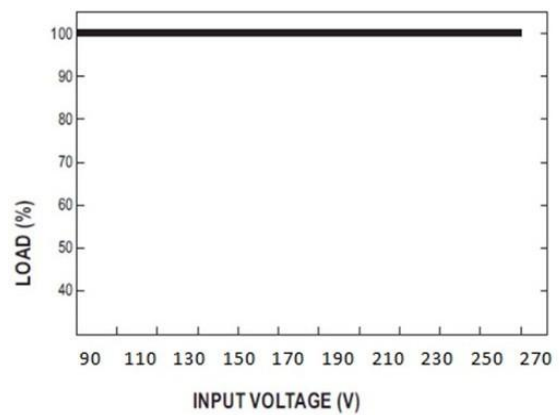
■ Block Diagram



■ Derating Curve

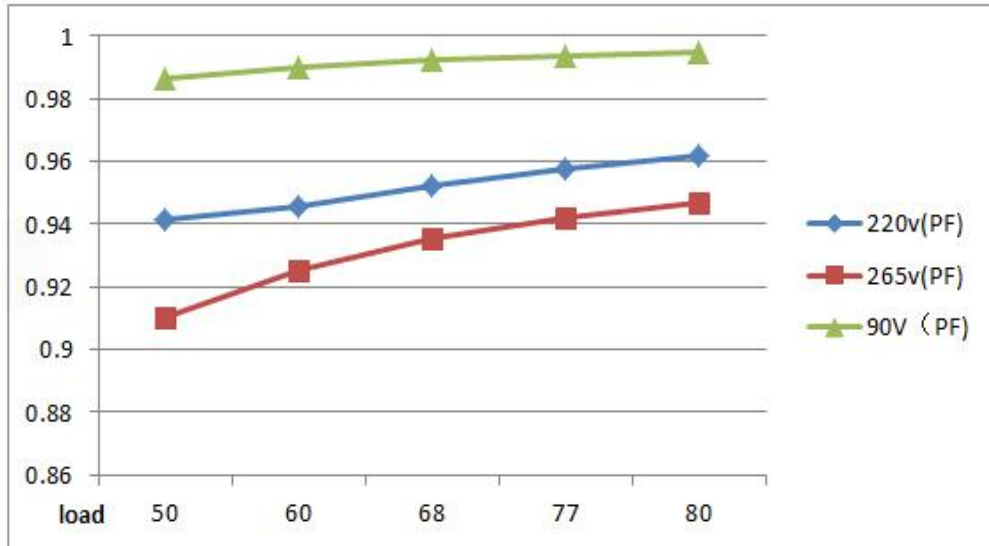


■ Static Characteristics



■ Power Factor Characteristic

1200mA LOAD



■ EFFICIENCY vs LOAD

1200mA LOAD

