



### ■ Features

- Over international AC input voltage available (85-265Vac)
- Built-in bipolar PFC function
- Constant current design
- Protections: Short circuit, open circuit, over-load, over-current
- IP30 design
- No-flicking
- No load power consumption <0.5W
- High reliability, low cost
- 5 years warranty

### ■ Applications

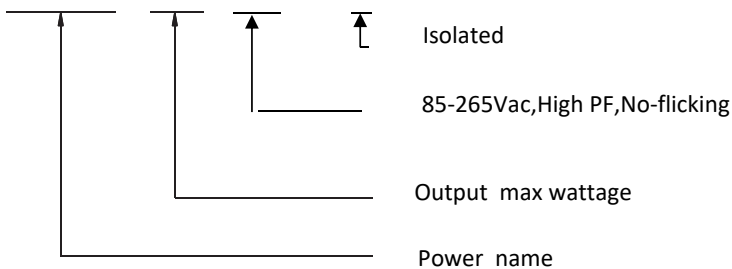
- Indoor LED lighting
- LED office lighting
- LED commercial lighting
- LED decorative lighting

### ■ Description

HZD040AXI-A series is a 24W-40W economical AC/DC LED power supply series. Incorporating a built-in bipolar PFC design, It provides a high Power Factor value .high efficiency and no-flicking. 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 040 A XI-B**



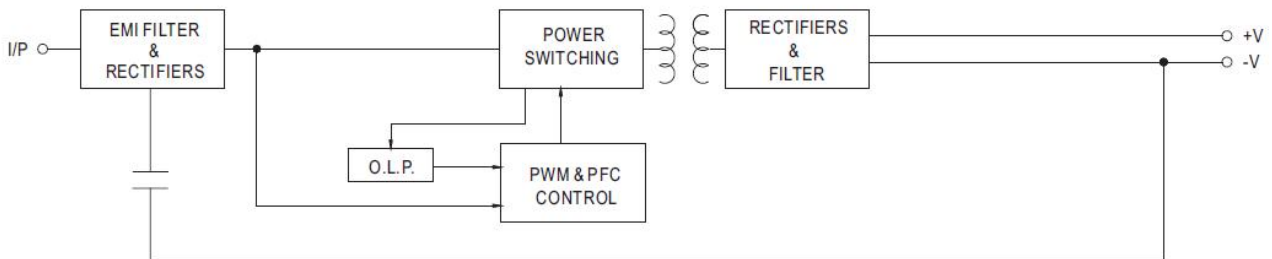
**SPECIFICATION SHEET**

MODEL		HZD040AXI-B-700	HZD040AXI-B-350			
OUTPUT	RATED CURRENT	700mA				
	OPERATING VOLTAGE RANGE Note.5	32~58V				
	CURRENT ACCURACY Note.3	3.00%				
	RATED POWER	40W				
	RIPPLE & NOISE (max.) Note.2	<10%				
	NO LOAD OUTPUT VOLTAGE (max.)	72V				
	SETUP TIME	500ms / 220VAC at full load;				
INPUT	VOLTAGE RANGE Note.4	85~ 265VAC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	PF $\geq$ 0.95/220VAC,PF>0.95/265VAC(at full load)(Please refer to "Power Factor Characteristic" curve)				
	TOTAL HARMONIC DISTORTION	THD< 12% when output loading $\leq$ 70% ;THD< 10% when full output loading				
	EFFICIENCY (Typ.)	>86%				
	AC CURRENT (Typ.)	0.22A/220VAC				
	INRUSH CURRENT(Typ.)	Max 25A (twidh=75 $\mu$ s 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 $^{\circ}$ C				
	WORKING HUMIDITY	20 ~ 70% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80 $^{\circ}$ C, 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 $^{\circ}$ C / 70% RH				
	EMC EMISSION	EN55015, EN61000-3-2 Class C ( $\geq$ 75% load) ; EN61000-3-3: 2003				
	EMC IMMUNITY	EN61547: 2009 light industry level, criteria B (Surge 2KV)				
OTHERS	DIMENSION	140*47*28MM (L*W*H)				
	PACKING	0.15Kg;100pcs/16.2kg/0.041m <sup>3</sup>				
NOTE	<p>1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25<math>^{\circ}</math>C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1<math>\mu</math>f &amp; 47<math>\mu</math>f 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>					

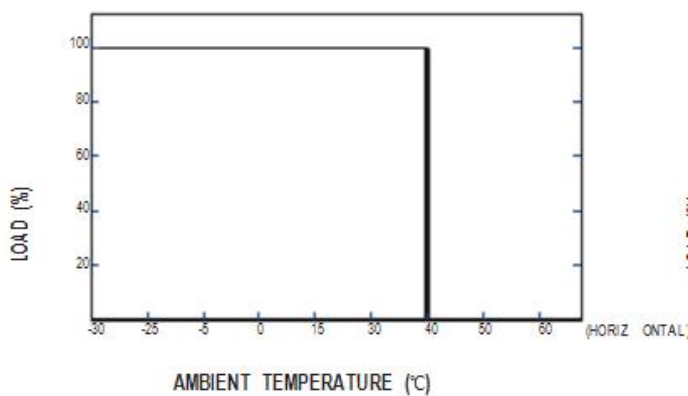
■ Mechanical Specification



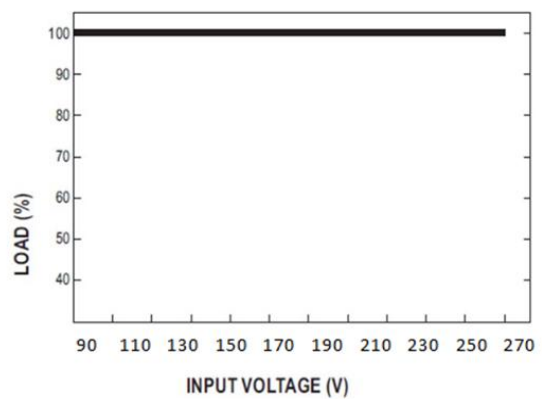
■ Block Diagram



■ Derating Curve

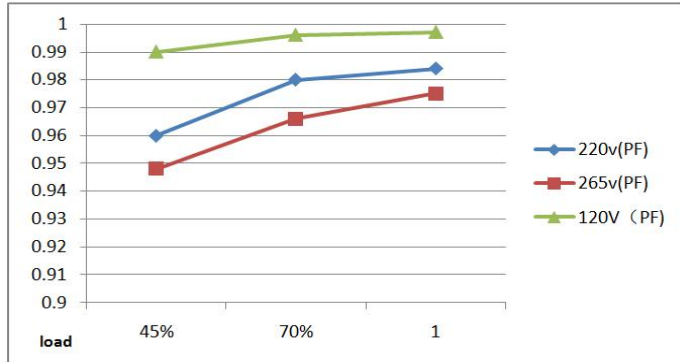


■ Static Characteristics



■ Power Factor Characteristic

**700MA LOAD**



■ EFFICIENCY vs LOAD

**700 MA LOAD**

