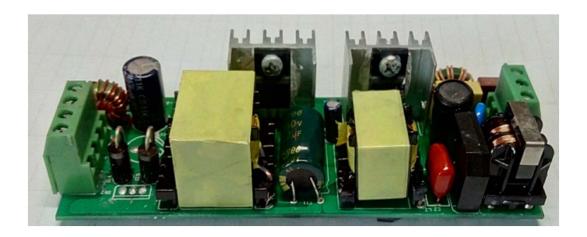


### **HZD060AXIseries**

### 24~80V Single Output LED Power Supply



#### **■** Features

#### Applications

- •Wide voltage input 50/60Hz AC85-265V, applicable to all countries •External high power constant current LED power supply
- Flicker free High PF
- •Constant current design
- •High performance double quasi resonant PFC controller used in large power without stroboscopic lighting LED
- •Protections: Short circuit, open circuit, over-load, over-current
- •Through EMC,FCC, safety testing, but with the whole lamp safety certification.
- •lP20 design
- •No load power consumption < 0.5W
- •High reliability, low cost
- •3 years warranty

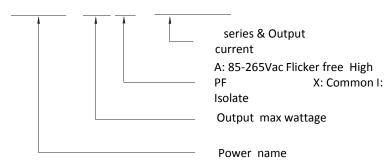
#### Description

HZD060AXI series is a 21W-60W economical AC/DC LED power supply series. Incorporating a built-in active PFC design, It provides a high Power Factor value with flickerfree. In addition, with no-load low power consumption be less than 0.5W, High performance double quasi resonant PFC controller used in large power without stroboscopic lighting LED, Wide output voltage24-80V, and the setup time less than 100ms, According to customer request adjust output current max up to 1200mA HZD060AXIseries, which operates from 85~265VAC, both constant current output design, supplying models with the current

HZD060AXIseries, which operates from 85~265VAC, both constant current output design, supplying models with the current of 700mA, 900mA, 1200mA, 1500mA and 1800mA, respectively...

#### **Model Encoding**







# **HZD060AXIseries**

### 24~80V Single Output LED Power Supply

MODEL		HZD060AXI- 700	HZD060AXI- 900	HZD060AXI- 1200	HZD060AXI- 1500	HZD060AXI- 1800		
OUTPUT	RATED CURRENT		700mA	900mA	1200mA	1500mA	1800mA	
	OPERATING VOLTAGE RANGE Note.5		40~80V	24~66	24~50	24~40	24~36	
	CURRENT ACCURACY Note.3		±5%					
	RATED POWER		56W	59.4W	60W	60W	64.8W	
	RIPPLE & NOISE (max.) Note.2		200mv	200mv	200mv	200mv	200mv	
	NO LOAD OUTPUT VOLTAGE		100V	80V	70v	60v	55v	
	(max.)					000	334	
	SETUP TIME		500ms /110VAC, 220VAC at full load					
INPUT	VOLTAGE RANGE Note.4		A: 85-265Vac					
	FREQUENCY RANGE		47 ~ 63Hz					
	POWER FACTOR Blank (Typ.) type  TOTAL HARMONIC Blank DISTORTION type		PF≥0.99/110VAC,PF≥0.95/220VAC, TOTAL HARMONIC DISTORTION					
			AC 220V THD<15% when output full loading					
	EFFICIENCY (Typ.)AC220V load by 70%		>88%	>88%	>88%	>87%	>87%	
	AC CURRENT (Typ.)		0.27A/220VAC	0.285A/220VA	0.3A/220VAC	0.33A/220VAC	0.36A/220VAC	
	INRUSH CURRENT(Typ.)		COLD START 3	0A (twidth=75μs	measured at 50%	Ipeak) at 220VA	AC	
	MAX. No. of PSUs on 16A CIRCUIT BREAKER							
	LEAKAGE CURRENT							
PROTECTION	SHORT CIRCUIT		Hiccup mode, recovers automatically after fault condition is removed.					
	OVER TEMPERATURE		Hiccup mode, recovers automatically after temperature goes down.					
ENVIRONMEN T	WORKING TEMP.		-30 ~ +40°C					
	WORKING HUMIDITY		20 ~ 70% RH non-condensing					
	STORAGE TEMP., HUMIDITY		-40 ~ +50°C, 10 ~ 70% RH					
	TEMP. COEFFICIENT		N/A					
	VIBRATION		N/A					
SAFETY & EMC	SAFETY STANDARDS		EN 61347-1:2015,EN 61347-2-13					
	WITHSTAND VOLTAGE		N/A					
	ISOLATION RESISTANCE		N/A					
	EMC EMISSION		Compliance to EN 55015: 2013,EN 61547: 2009,EN 61000-3-2:2014,EN 61000-3-3: 2013,FCC,RoHS					
	EMC IMMUNITY		Compliance toEN 61000-4-2,3,4,5,6,8,11, EN 61547, light industry level, criteria B					
OTHERS	MTBF		N/A					
	DIMENSION		130*46.5*26mm	(L*W*H)				
	PACKING							
NOTE	1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25 ℃ of ambient temperature.							
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.							
	3. Please see AC input voltage drop vs. output current characteristics table.							
	4. Derating may be needed under low input voltage, please check the static characteristic for more details.							
	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.  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 installation—again.  7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.							



0.93

LOAD

## **HZD060AXIseries**

### 24~80V Single Output LED Power Supply

### ■ Mechanical Specification 46.5MM **26MM** 130MM ■ Block Diagram CON1 OUT-O IN L OUT AC85 OUT-265V LOAD:24~80V OUT + O IN N OUT + CON2 ■ Derating Curve ■ Static Characteristics 100 90 80 80 70 60 20 110 120 125 135 145 155 165 175 180 200 230 295 (Blank type) 180 185 190 195 200 205 210 215 220 230 240 295 (Etype) 60 (HORIZONTAL) INPUT VOLTAGE (V) AMBIENT TEMPERATURE (°C) ■ Power Factor Characteristic LOAD 0.99 0.98 0.97 110v (PF) -220v (PF) 0.96 265v (PF) 0.95 0.94 PF

70



# **HZD060AXIseries**

### 24~80V Single Output LED Power Supply

