



■ Features

- Over international AC input voltage available (90-264Vac)
- Built-in active PFC function
- Constant current design
- Protections: Short circuit, open circuit, over-load, over-current
- IP67 design
- **Lightning protection 4000V**
- No-flicker
- High reliability, low cost
- 5 years warranty

■ Applications

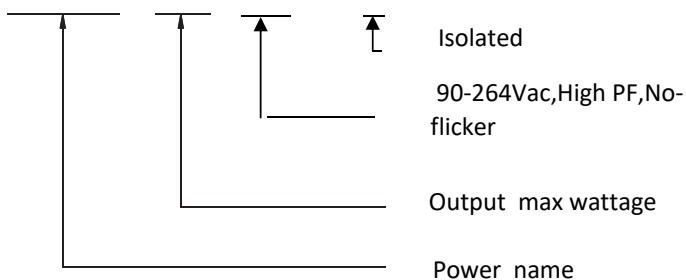
- Outdoor LED lighting
- LED office lighting
- LED commercial lighting
- LED decorative lighting

■ Description

HPD060AXI series is a 40W-60W economical AC/DC waterproof 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 setu time less than 500ms. With anti-lightning protection function.

■ Model Encoding

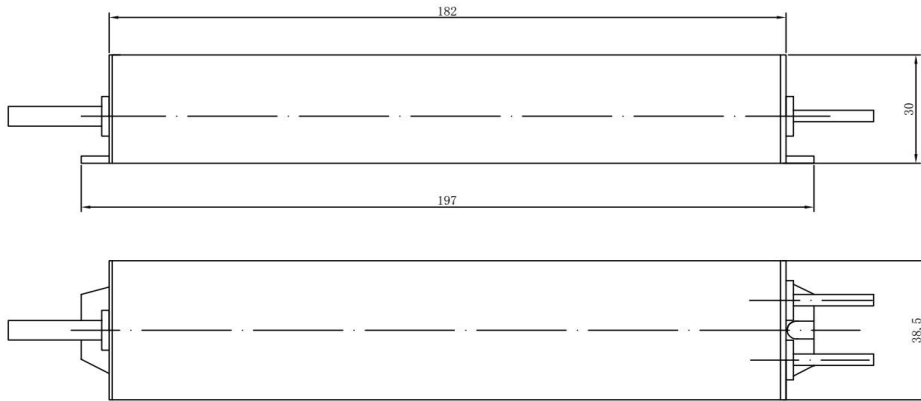
HPD 060 A XI



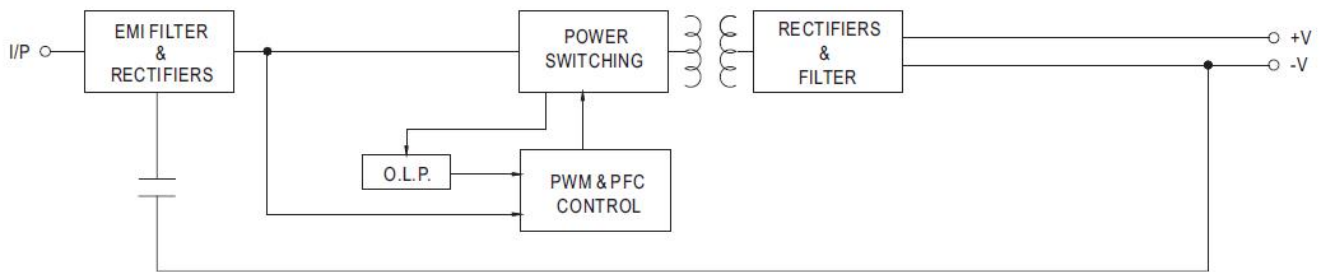
SPECIFICATION SHEET

MODEL		HPD060AXI-1000	HPD060AXI-700		
OUTPUT	RATED CURRENT	1000mA	700mA		
	OPERATING VOLTAGE RANGE Note.5	40~60V	64-85V		
	CURRENT ACCURACY Note.3	3.00%			
	RATED POWER	60W	60W		
	RIPPLE & NOISE (max.) Note.2	<10%	<10%		
	NO LOAD OUTPUT VOLTAGE (max.)	72V	90V		
	SETUP TIME	500ms / 220VAC at full load;			
INPUT	VOLTAGE RANGE Note.4	90~ 264VAC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR	PF \geq 0.98/100VAC, PF>0.95/277VAC(at full load)(Please refer to "Power Factor Characteristic"			
	TOTAL HARMONIC DISTORTION	THD< 10% when output loading \leq 70% ;THD< 6% when full output loading @110V			
	EFFICIENCY (Typ.)	85%	85%		
	AC CURRENT (Typ.)	0.32A/220VAC	0.32A/220VAC		
	INRUSH CURRENT(Typ.)	Max 27A (twidth=75 μ 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	ENEC EN61347-1; EN61347-2-13; EN62384			
	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	197*38.5*30 MM (L*W*H)			
	PACKING	0.130Kg;50pcs/14.2kg/0.041m ³			
NOTE	<p>1. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25$^{\circ}$C 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</p> <p>7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.</p>				

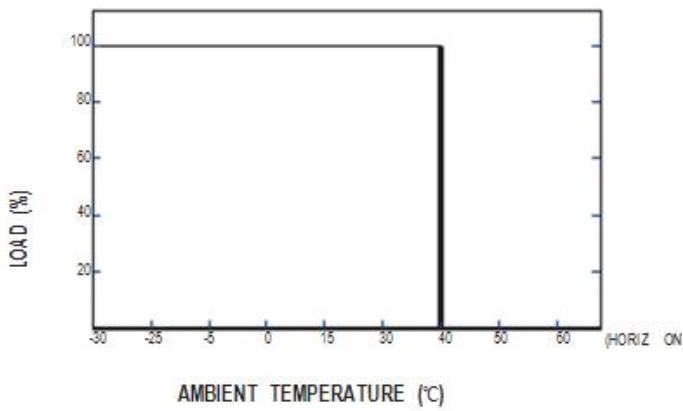
■ Mechanical Specification



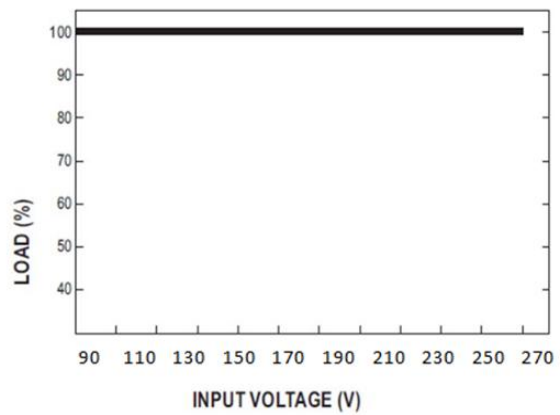
■ Block Diagram



■ Derating Curve

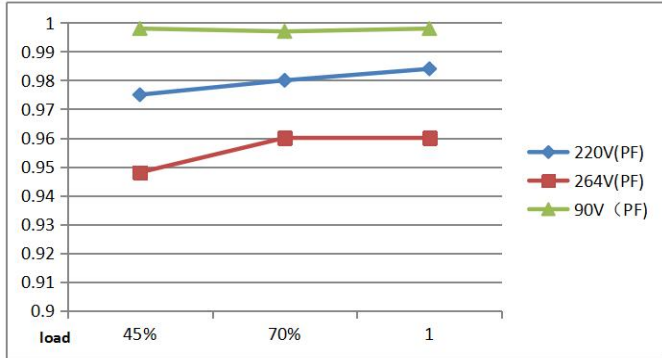


■ Static Characteristics



■ Power Factor Characteristic

1000MA LOAD



■ EFFICIENCY vs LOAD

1000MA LOAD

