



# AC → DC SWITCHING POWER SUPPLY

# LPF1960D SERIES

All the patents are held accountable counterfeiting.

## Features



### Green Power

- Output Voltage/Current/Temperature Digital Display.
- Intelligent Detection of Output Error: Relay and LCD Alarm Flickering
- Standard/Din Rail Mounting Dual Purpose
- Easy mounting (one-step installation)
- Full Range Input with PFC
- Comply with High Efficiency Power 80Plus Criterion
- 92% High Efficiency
- Models with output voltage lower than 130VDC are build-in output stability monitor
- Split rail & Series connection possible
- Fan cooling
- 100% burn-in test
- EN 62368 approved
- 2 years warranty
- Output modify range: 5V~60VDC

DIMENSIONS: 131(H)\*119.2(D)\*63.7(W)mm

WEIGHTS: 950g

## General specifications

### INPUT

Input range	90~264VAC 120~380VDC
Input frequency	47~63Hz
Inrush current (25°C)	20A/110VAC 40A/220VAC
Power factor	95% Min.

### OUTPUT

Hold-up time	16ms
Short protection	Re-power on to recover
Over load protection	Short-circuit protection
<b>1A power ready relay contacts are built in VAT module.</b>	

## Detail specifications

**960 Watts (See note session for more details.)**

MODEL	O/P Volt Adj. ± %	Load(Current) <sup>1</sup>			Ripple & Noise <sup>4</sup>	Line REG. <sup>2</sup>	Load REG. <sup>3</sup>	Efficiency <sup>5</sup>	O.V.P
		Min.	Rated	Max.					
LPF1960D-24CED	V : +24V ±10%	0A	40A	40A	240mV	±1%	±1%	91% Ref.	31.4 ~ 34.7V
LPF1960D-36CED	V : +36V ±10%	0A	26.6A	26.6A	360mV	±1%	±1%	92% Ref.	47.8 ~ 53.2V
LPF1960D-48CED	V : +48V ±10%	0A	20A	20A	480mV	±1%	±1%	92% Ref.	64.6 ~ 71.4V

- Intelligent Monitor Alarm Instructions:
- Voltage alarms when output voltage value is not in the range of -10% to +10%.
  - Voltage LCD flickering, open circuit for relay.
  - Current alarms when output current value is over 100%.
  - Current LCD flickering, open circuit for relay.
  - Temperature alarms when monitor panel temperature is lower than -20 or higher than 80 degrees Celsius.
  - Temperature LCD flickering, open circuit for relay.
  - Relay alarm is normally closed contact. (For the two contacts, short circuit when power source is normal; open circuit when power source is abnormal.)

## CE Standards

EN 55032, EN 55024,  
EN 61000-3-2, EN 61000-3-3,  
(EN 61000-4-2, EN 61000-4-3,  
EN 61000-4-4, EN 61000-4-5,  
EN 61000-4-6, EN 61000-4-8,  
EN 61000-4-11)  
Heavy Industry level, criteria A  
LVD: EN 62368-1:2014

## Safety Standards



UL 508 Meet



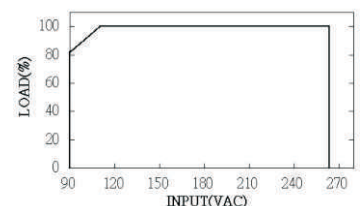
CE Marking

## Environments

Operating Temperature	-10 ~ 60°C, Ambient
Operating Humidity	20 ~ 90% RH, No Condensing
Storage Temperature	-20 ~ 85°C, Ambient
Vibration	2G, 10~500Hz, 3 axes

## NOTE

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
4. Ripple & Noise are measured with 20MHz oscilloscope at 220VAC by using a 20cm long 12" twisted pair-wire with a 0.1uF/630V metal capacitor & a 47uF electrolytic capacitor parallel on the test point.
5. Efficiency is measured at rated load and 220VAC input.
6. Hold-up time is measured at rated load and 220VAC input.
7. Output Voltage Adjustable is measured on 5% of rated load.
8. Reign Power reserve the right to change specifications at any time without notice.



Derating curve

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