



# AC → DC SWITCHING POWER SUPPLY

# LPF1960D SERIES

All the patents are held accountable counterfeiting.

## Features



### Green Power

- 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: 3V~500VDC

DIMENSIONS: 131(H)\*118(D)\*60.7(W)mm

WEIGHTS: 950g

## General specifications

### INPUT

Input range	90~264VAC 127~380VDC
Input frequency	47~63Hz
Inrush current (25°C)	20A/110VAC 40A/220VAC
Power factor	95% Min.

### OUTPUT

Hold-up time	16ms
Short protection	Autorecovery
Over load protection	Short-circuit protection
1A Power Ready Relay (Optional)	
Optional 5V/3A AUX output	
for models which output voltage lower than 40VDC	

## 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-24CENDA	V : +24V ±10%	0A	40A	40A	240mV	±1%	±1%	91% Ref.	31.4 ~ 34.7V
LPF1960D-36CENDA	V : +36V ±10%	0A	26.6A	26.6A	360mV	±1%	±1%	92% Ref.	47.8 ~ 53.2V
LPF1960D-48CENDA	V : +48V ±10%	0A	20A	20A	480mV	±1%	±1%	92% Ref.	64.6 ~ 71.4V
LPF1960D-100CENDA	V : +100V ±10%	0A	9.6A	9.6A	1000mV	±1%	±1%	92% Ref.	140 ~ 165V
LPF1960D-250CEN	V : +250V ±10%	0A	3.84A	3.84A	2500mV	±1%	±1%	92% Ref.	310 ~ 360V

Please Choose Fit Function, And Fill In The Blank With Suitable Words.

Order Model: LPF1960D-24C

Optional Function:

Terminal Block: "E" : Mini Terminal Block

Motion: " " : Power Ready Relay Function

"N" : No Power Ready Relay Function

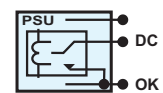
Monitor: " " : No Monitor

"D" : Monitor Display

Type: " " : No Display Function

"A" : Output Voltage Display

Relay internal connection



E Type Terminal Block

## CE Standards

EN 55022 CLASS A, EN 55024,  
EN 61000-3-2, EN 61000-3-3,  
EN 61000-6-2, EN 61000-6-4,  
(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

Operating Humidity

Storage Temperature

Vibration

-10 ~ 60°C, Ambient

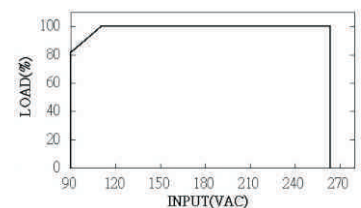
20 ~ 90% RH, No Condensing

-20 ~ 85°C, Ambient

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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**REIGNPOWER**  
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