



AC → DC SWITCHING POWER SUPPLY

LPF1960D SERIES

All the patents are held accountable counterfeiting.

Features



Green Power

- UL508, EN 62368 approved
- 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
- 2 years warranty
- Output modify range: 3V~500VDC

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

Max. I/P current / Inrush current (25°C) 11.20A/20A@110VAC
5.21A/40A@220VAC

Power factor 95% Min.

OUTPUT

Hold-up time 16ms

Short protection Re-power on to recover

Over load protection Short-circuit protection

Optional 5V/3A AUX output for models which output voltage lower than 40VDC

Detail specifications

750 ~ 960 Watts (See note session for more details.)

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P
		Min.	Rated	Max.					
LPF1750D-12CENDA	V : +12V ±10%	0A	62.5A	62.5A	150mV	±1%	±1%	88% Ref.	17.1 ~ 18.9V
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-72CENDA	V : +72V ±10%	0A	13.3A	13.3A	720mV	±1%	±2%	92% Ref.	84 ~ 90V
LPF1960D-110CENDA	V : +110V ±10%	0A	8.73A	8.73A	1100mV	±1%	±1%	92% Ref.	150 ~ 175V
LPF1960D-250CEN	V : +250V ±10%	0A	3.84A	3.84A	2500mV	±1%	±1%	92% Ref.	310 ~ 360V
LPF2960D1	V1 : +24V ±10% V2 : +5V	0A 0A	39.37A 3A	39.37A 3A	240mV 40mV	±1% ±1%	±1% ±1%	91% Ref.	31.4 ~ 34.7V 5.8 ~ 7.0V
LPF2960D2	V1 : +36V ±10% V2 : +5V	0A 0A	26.48A 1.3A	26.48A 1.3A	360mV 40mV	±1% ±1%	±1% ±1%	92% Ref.	47.8 ~ 53.2V 5.8 ~ 7.0V
LPF2960D3	V1 : +48V ±10% V2 : +5V	0A 0A	19.86A 1.3A	19.86A 1.3A	480mV 40mV	±1% ±1%	±1% ±1%	92% Ref.	64.6 ~ 71.4V 5.8 ~ 7.0V
LPF2960D4	V1 : +72V ±10% V2 : +5V	0A 0A	13.24A 1.3A	13.24A 1.3A	720mV 40mV	±1% ±1%	±2% ±1%	92% Ref.	84 ~ 90V 5.8 ~ 7.0V
LPF2960D5	V1 : +110V ±10% V2 : +5V	0A 0A	8.66A 1.3A	8.66A 1.3A	1100mV 40mV	±1% ±1%	±1% ±1%	92% Ref.	150 ~ 175V 5.8 ~ 7.0V
LPF2960D6	V1 : +24V ±10% V2 : +12V	0A 0A	38.5A 3A	38.5A 3A	240mV 80mV	±1% ±1%	±1% ±1%	91% Ref.	31.4 ~ 34.7V 15.3 ~ 18.9V



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

Order Model: LPF1960D-24CEN□□

Optional Function:

Terminal Block: "E" : Mini Terminal Block

"N" : No Power Ready Relay Function

Monitor: " " : No Monitor

"D" : Monitor Display

Type: " " : No Display Function

"A" : Output Voltage Display

CE Standards

EN 55032, EN 55035, 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

Safety Standards



UL 508 APPROVAL



CE Marking

Environments

Operating Temperature

-10 ~ 60°C, Ambient

Operating Humidity

20 ~ 90% RH, No Condensing

Storage Temperature

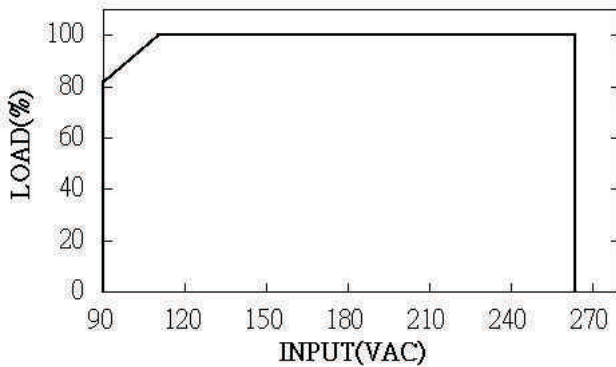
-20 ~ 85°C, Ambient

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. With ● are CE safety approval, but no UL safety approval.
8. With ▲ are no Monitor Display.
9. Output Voltage Adjustable is measured on 5% of rated load.
10. The product uses metal enclosure for cooling. To ensure product lifespan, a clearance of at least 1 cm at the side of the product, 2 cm at top and bottom of the product should be maintained when installing.
11. Reign Power reserve the right to change specifications at any time without notice.

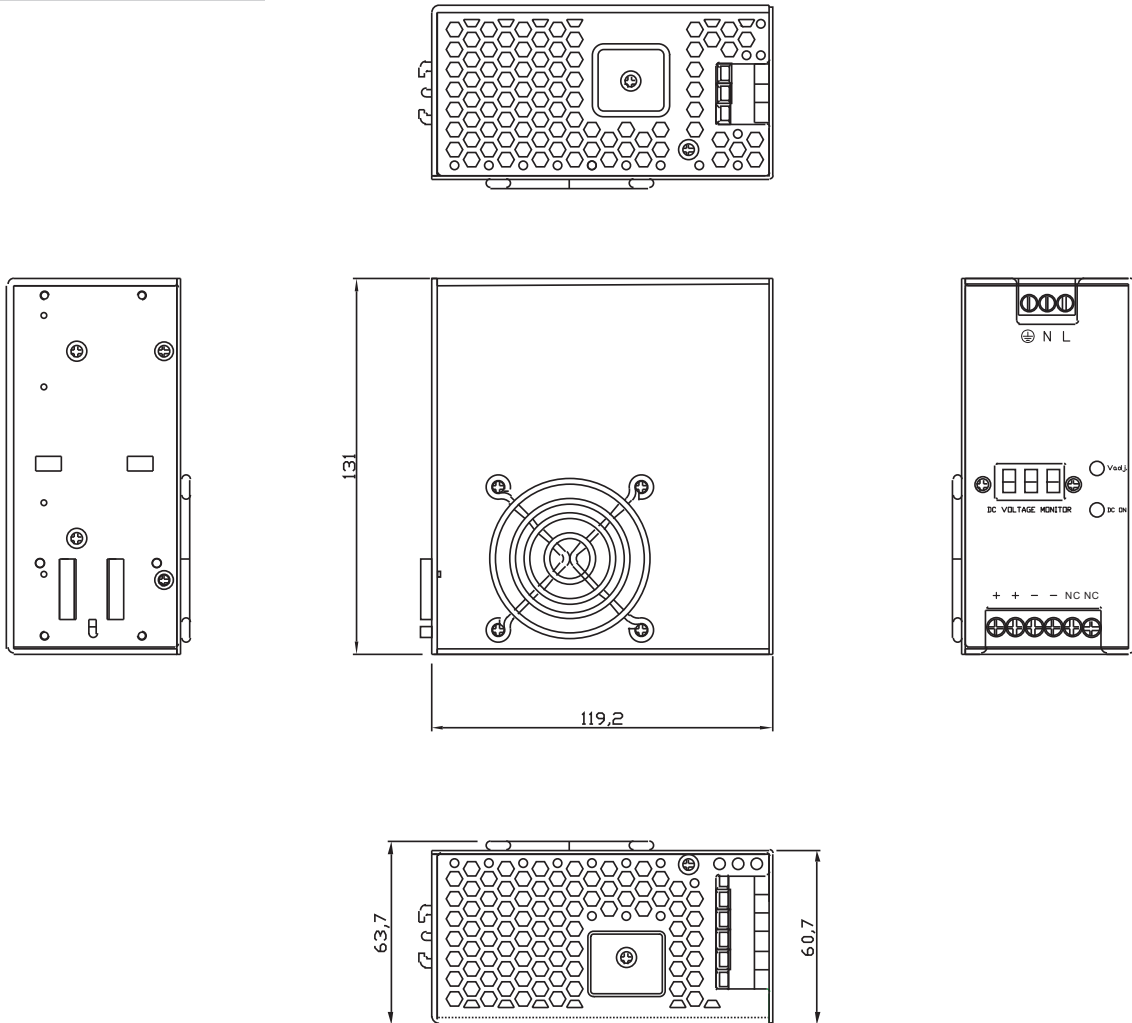


Derating curve



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Mechanical Details



Panel Designation

CASE NO. : CS480DR
UNIT : mm
DIMENSION : 131(H)*119.2(D)*63.7(W)
MATERIAL : ALUMINUM
COLOR : ORIGINAL ALUMINUM

Symbol	Description
L	Line Terminal Of AC Input (No Polarity At DC Input)
N	Neutral Terminal Of AC Input (No Polarity At DC Input)
⊕	Grounding (Earth)
+	DC Positive Output Terminal
-	DC Negative Output Terminal
DC Voltage Monitor	Display Output Voltage
V adj.	Potentiometer For Output Voltage
DC ON	Blue LED Indicator
NC	No Output Terminal



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Circuit Block Diagram

PFC frequency: 65KHz
PWM frequency: 80KHz

