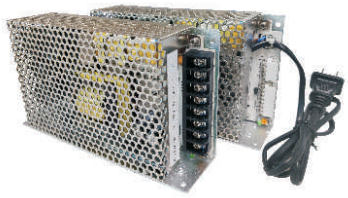
AC ➡ DC SWITCHING POWER SUPPLY

RP4150FP SERIES

Features



DIMENSIONS: 190(L) x 106(W) x 50(H)mm

- Convection cooled
- 100% burn-in test
- Build-in line filter
- Great reliability
- MOSFET designed
- 120,000 Hrs MTBF per MIL-HDBK-217F
- 2 years Warranty
- Output modify range: 3.3V~200VDC

General specifications

INPUT

Input range	100~240VAC 127~380VDC
Input frequency	47~63Hz
Max. I/P current / Inrush current (25° C)	2.03A/20A@110VAC 1.31A/40A@220VAC

OUTPUT

Hold-up time	16mS
Short protection	Autorecovery
Overload protection	Automatic power limited
Over voltage protection	Autorecovery

Detail specifications

150 Watts Rated, 387 Watts Peak (3 seconds)

MODEL	O/P Volt Adj. ± %	Load(Current) 1			Ripple & Noise 4	Line REG. 2	Load REG. 3	Efficiency 5
		Min.	Rated	Max.				
RP11501FP	V1: +24V ±10%	0A	6.25A	15A(peak)	240mVp-p	±1%	±1%	83% Min.
RP11502FP	V1: +36V ±10%	0A	4.2A	10.5A(peak)	360mVp-p	±1%	±1%	83% Min.
RP11503FP	V1: +48V ±10%	0A	3.125A	8A(peak)	500mVp-p	±1%	±1%	84% Min.
RP21501FP	V1: +24V ±10% V2: +5V -------	0A 0A	5.6A 3A	15A(peak) 3A	240mVp-p 70mVp-p	±1% ±2%	±1% ±1%	82% Min.
RP21502FP	V1: +36V ±10% V2: +5V -------	0A 0A	3.75A 3A	10A(peak) 3A	360mVp-p 70mVp-p	±1% ±2%	±1% ±1%	83% Min.
RP21503FP	V1: +48V ±10% V2: +5V -------	0A 0A	2.8A 3A	7.5A(peak) 3A	500mVp-p 70mVp-p	±1% ±2%	±1% ±1%	83% Min.
RP31501FP	V1: +24V ±10% V2: +12V ------- V3: +5V -------	0A 0A 0A	4.1A 3A 3A	13A(peak) 3A 3A	240mVp-p 120mVp-p 70mVp-p	±1% ±5% ±2%	±1% ±2% ±1%	82% Min.
RP31502FP	V1: +36V ±10% V2: +12V ------- V3: +5V -------	0A 0A 0A	2.7A 3A 3A	9.3A(peak) 3A 3A	360mVp-p 120mVp-p 70mVp-p	±1% ±5% ±2%	±1% ±2% ±1%	81% Min.
RP31503FP	V1: +48V ±10% V2: +12V ------- V3: +5V -------	0A 0A 0A	2.1A 2A 3A	7A(peak) 3A 3A	500mVp-p 120mVp-p 70mVp-p	±1% ±5% ±2%	±1% ±2% ±1%	84% Min.

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MODEL	O/P Volt Adj. ± %	Load(Current) 1			Ripple & Noise 4	Line REG. 2	Load REG. 3	Efficiency 5
		Min.	Rated	Max.				
RP31504FP	V1: +48V ±10% V2: +12V ------- V3: -12V -------	0A 0A 0A	2.2A 3A -0.65A	7A(peak) 3A -0.65A	500mVp-p 120mVp-p -50mVp-p	±1% ±5% ±2%	±1% ±5% ±2%	84% Min.
RP31505FP	V1: +48V ±10% V2: +24V ------- V3: -24V -------	0A 0A 0A	1.6A 2.7A -0.4A	6.3A(peak) 3A -0.4A	500mVp-p 240mVp-p -50mVp-p	±1% ±5% ±2%	±1% ±5% ±2%	84% Min.
RP41501FP	V1: +48V ±10% V2: +24V ------- V3: +12V ------- V4: +5V -------	0A 0A 0A 0A	1.5A 1.5A 2A 3A	5A(peak) 5A(peak) 3A 3A	500mVp-p 240mVp-p 120mVp-p 70mVp-p	±1% ±7% ±5% ±2%	±1% ±2% ±2% ±1%	83% Min.
RP41502FP	V1: +48V ±10% V2: +36V ------- V3: +12V ------- V4: +5V -------	0A 0A 0A 0A	1.6A 1A 1.2A 1.3A	5A(peak) 3.6A(peak) 1.2A 1.3A	500mVp-p 360mVp-p 100mVp-p 70mVp-p	±1% ±1% ±2% ±2%	±1% ±1% ±2% ±2%	83% Min.
RP41503FP	V1: +48V ±10% V2: +24V ------- V3: +12V ------- V4: -12V -------	0A 0A 0A 0A	1.5A 1.5A 2.5A -0.65A	4.5A(peak) 5A(peak) 2.5A -0.65A	500mVp-p 240mVp-p 70mVp-p -50mVp-p	±1% ±5% ±2% ±2%	±1% ±5% ±2% ±2%	84% Min.

EMC Standards

EN 55022 CLASS B (Meet),
EN 61000-3-3 (Meet),
EN 50081-1 (Meet),
EN 50082-1 (Meet)

Safety Standards

c UL us E159228 UL 60950 (Meet)
c UL us E159228 CSA 60950 (Meet)
CE CE 60950 (Meet)

Environments

Operating Temperature	-15 ~ 50°C, Ambient
Operating Humidity	5 ~ 95% 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 is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 220VAC input.
5. Efficiency is measured at rated load and 220VAC input.
6. Hold-up time is measured at rated load and 220VAC input.
7. Reign Power reserve the right to change specifications at any time without notice.

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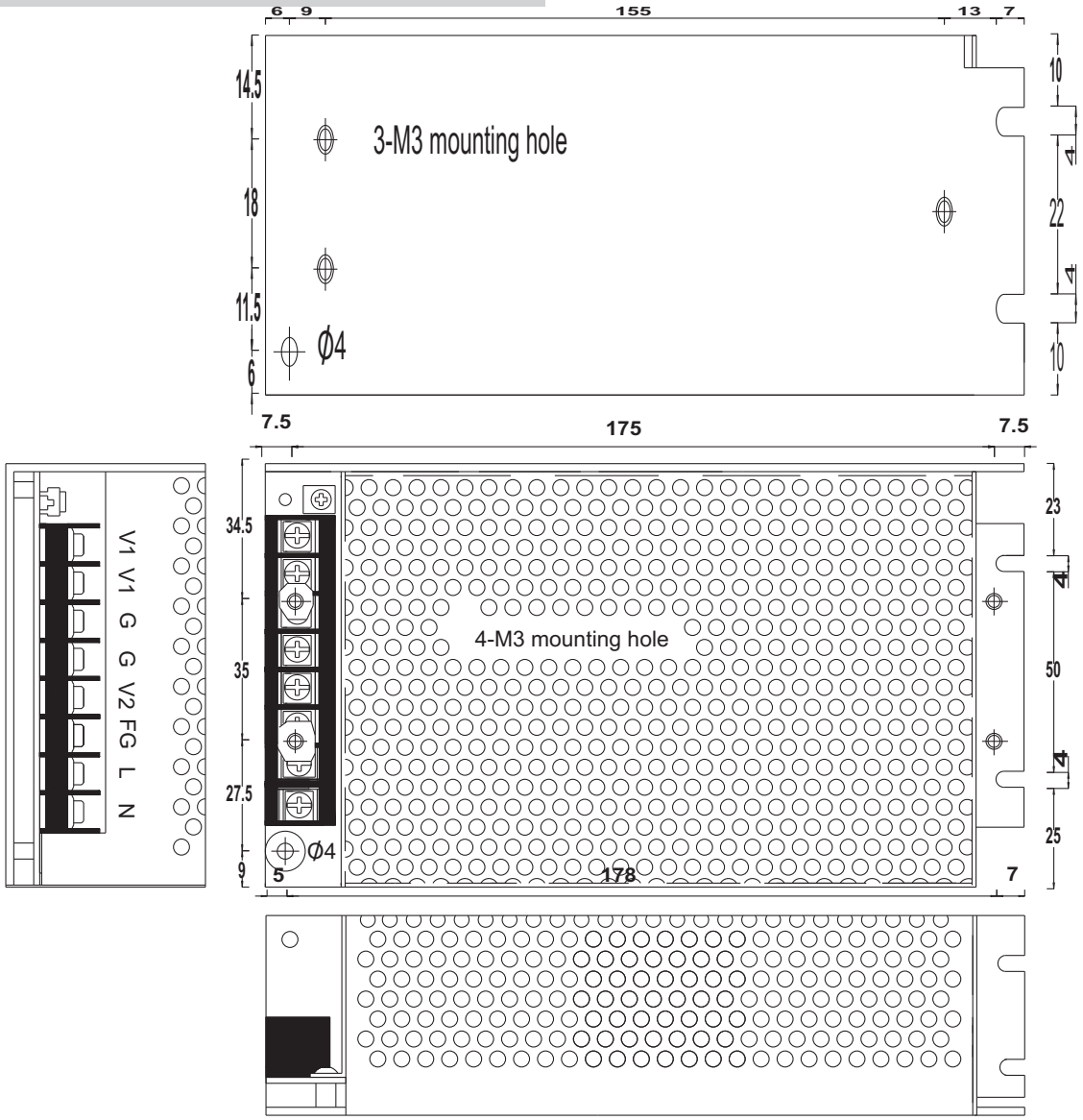
Mechanical Details



CASE NO. : CS150
UNIT : mm
DIMENSIONS : 190(L) x 106(W) x 50(H)

Panel Designation

PCB Barrier Terminal Block

Pin	Single	Dual	Description
1	L	L	L : Line Terminal of Input N : Neutral Terminal of Input FG : Ground (Earth) No Polarity At DC Input
2	N	N	
3	FG	FG	
4	NC	V2	NC : No connection G : DC Output Ground Terminal Vx : DC Output Terminal (Specify at spec.)
5,6	G	G	
7,8	V1	V1	

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