



# AC → DC SWITCHING POWER SUPPLY

# CS150 SERIES

## Features



DIMENSIONS: 190(L) x 106(W) x 51(H)mm  
WEIGHTS: 780g



- Convection cooled
- 100% burn-in test
- Build-in power factor corrector
- MOSFET designed
- 2 years Warranty
- **Output modify range: 3V~200VDC**
- **Split rail & Series connection possible**

## General specifications

### INPUT

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

### OUTPUT

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

## Detail specifications

### 150 Watts

| MODEL           | O/P Volt<br>Adj. ± %           | Load(Current) <sup>1</sup> |              |             | Ripple<br>&<br>Noise <sup>4</sup> | Line<br>REG. <sup>2</sup> | Load<br>REG. <sup>3</sup> | Efficiency <sup>5</sup> | O.V.P.<br>Trip point     |
|-----------------|--------------------------------|----------------------------|--------------|-------------|-----------------------------------|---------------------------|---------------------------|-------------------------|--------------------------|
|                 |                                | Min.                       | Rated        | Max.        |                                   |                           |                           |                         |                          |
| RP1150-12C      | V1: +12V ±10%                  | 0A                         | 12.5A        | 12.5A       | 150mVp-p                          | ±1%                       | ±1%                       | 75% Min.                | 15.0 ~ 18V               |
| RP1150-24C      | V1: +24V ±10%                  | 0A                         | 6.25A        | 6.25A       | 150mVp-p                          | ±1%                       | ±1%                       | 77% Min.                | 27.6 ~ 31V               |
| ◆ RP1150-48C    | V1: +48V ±10%                  | 0A                         | 3.15A        | 3.2A        | 250mVp-p                          | ±1%                       | ±1%                       | 77% Min.                | 54 ~ 60V                 |
| ● ◆ RP1150-125C | V1: +125V ±10%                 | 0A                         | 1.2A         | 1.2A        | 250mVp-p                          | ±1%                       | ±3%                       | 80% Min.                | -----                    |
| ◆ RP21501C      | V1: +8V ±10%<br>V2: +5V -----  | 0A<br>0A                   | 15A<br>3A    | 15A<br>3A   | 80mVp-p<br>50mVp-p                | ±1%<br>±1%                | ±1%<br>±1%                | 70% Min.                | 12 ~ 14V<br>5.8 ~ 7.0V   |
| ◆ RP21502C      | V1: +12V ±10%<br>V2: +5V ----- | 0A<br>0A                   | 11.25A<br>3A | 12.5A<br>3A | 100mVp-p<br>50mVp-p               | ±1%<br>±1%                | ±1%<br>±1%                | 70% Min.                | 14.5 ~ 17V<br>5.8 ~ 7.0V |
| ◆ RP21504C      | V1: +24V ±10%<br>V2: +5V ----- | 0A<br>0A                   | 5.62A<br>3A  | 6.3A<br>3A  | 150mVp-p<br>50mVp-p               | ±1%<br>±1%                | ±1%<br>±1%                | 74% Min.                | 27.6 ~ 30V<br>5.8 ~ 7.0V |

## 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)  
LVD: EN 62368-1

## Safety Standards



UL/CUL 60950 APPROVAL

CE Marking

TUV Marking



## Environments

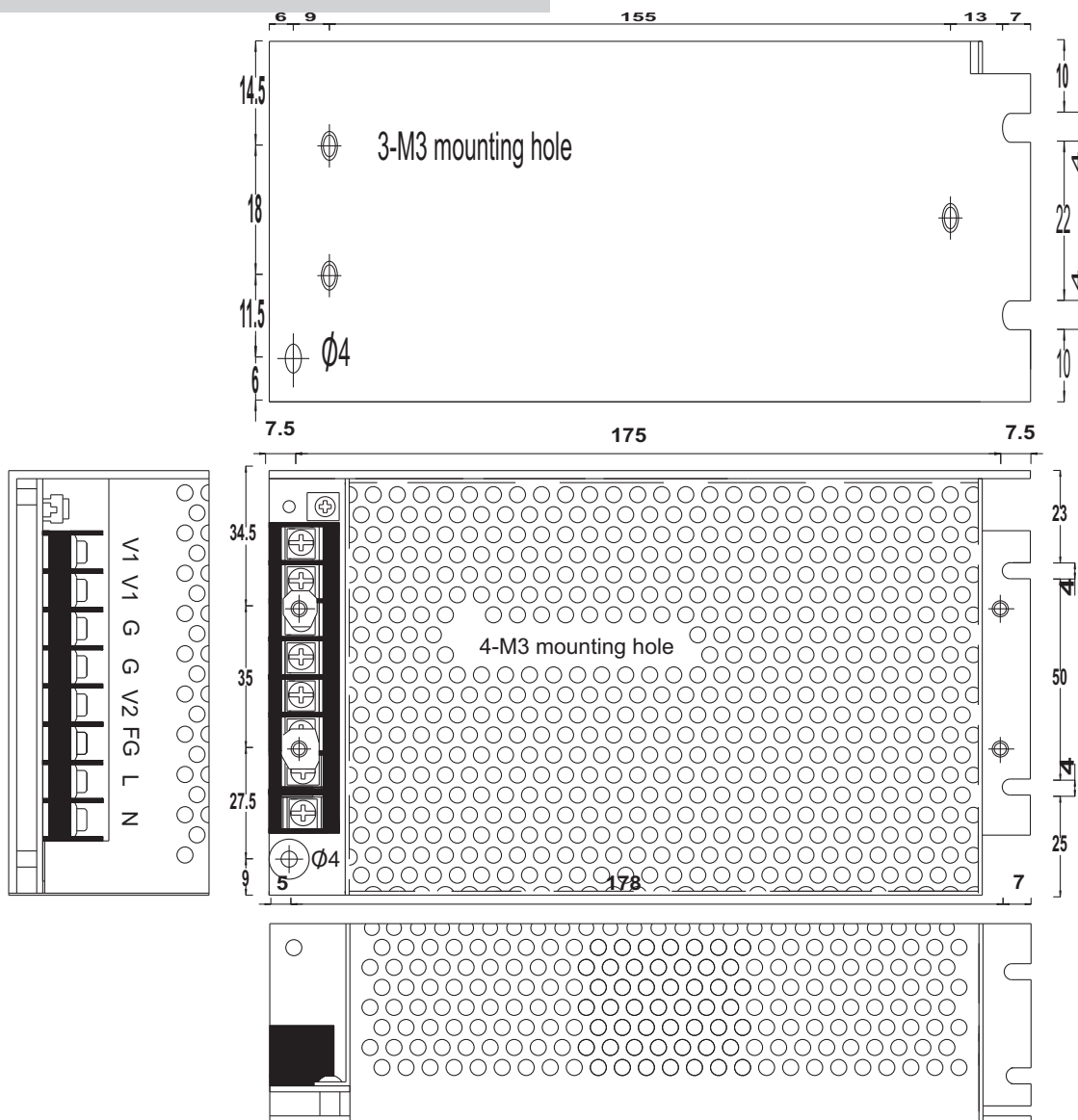
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|                       |                            |
|-----------------------|----------------------------|
| Operating Temperature | -15 ~ 50°C, Ambient        |
| Operating Humidity    | 20 ~ 90% RH, No Condensing |
| Storage Temperature   | -20 ~ 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 non-safety approval.
  8. With ◆ are without TUV approval.
  9. Output Voltage Adjustable is measured on 5% of rated load.
  10. Reign Power reserve the right to change specifications at any time without notice.



## Mechanical Details



## Panel Designation

### PCB Barrier Terminal Block

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

CASE NO. : CS150

UNIT : mm

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