

## 200 Watt, HRP(G)-200 Series, Enclosed Power Supply

**ALL PSU LTD**  
Electronic Power Solutions

- Universal AC Input With Active PFC
- Stand-By 5V @ 0.3 A Auxiliary Output (G option)
- Ultra High Reliability, 5 Year Warranty
- Short Circuit, Over Voltage, Over Load, Over Temperature Protection
- Full Approvals : UL/CUL/TUV/CB/CE
- Remote On/Off Control (G Option)
- Remote Sense
- Built In Constant Current Limiting Circuit
- No Load Power Consumption <0.5 W (G option)
- Withstands 300VAC Surge Input for 5 Seconds



### Specification

|                                  |   |
|----------------------------------|---|
| Input Voltage.....               | 85~264 VAC, 47~63 Hz (120-370 VDC)  |
| Power Factor.....                | 0.95 @ 230 VAC, 0.99 @ 115 VAC  |
| Inrush Current.....              | (typ.) 35A / 115VAC, 70A / 230VAC   |
| Output Voltage.....              | See table below (plus -5~+ 10% typ pot adjustment range)  |
| Over Load Protection.....        | 105~135% O/P Constant Current Limiting  |
| Over Voltage Protection.....     | 115~145% Depends on output Voltage  |
| Over Temperature Protection..... | Shuts Down, Automatic recover when cooled   |
| Set Up, Rise, Hold Up Time.....  | (typ.) 1000ms, 50ms, 16ms @ full load, 230 VAC Input  |
| Withstand Voltage.....           | I/P-O/P: 3 kVAC, I/P-F/G: 1.5kVAC, O/P-F/G: 0.5kVAC   |
| Operating Temperature .....      | -40 to +70 °C, derates above +40°C see curve  |
| Cooling.....                     | Free air convection   |
| Safety Standards.....            | UL60950-1 TUV EN60950-1   |
| EMC.....                         | EN55022, (CISPR22) Class B, EN61000-4-2,3,4,5,6,8,11<br>EN61000-3-2,3 ENV50204, EN55024,<br>Heavy Industrial Level Criteria A |
| MTBF.....                        | 209.4Khrs, MIL-HDBK-217F @ 25°C   |
| Mechanical .....                 | 199 x 98 x 38 mm (plus input & output terminals to length)  |
| Connections Input & Output.....  | Screw Terminals   |

### Models and Ratings

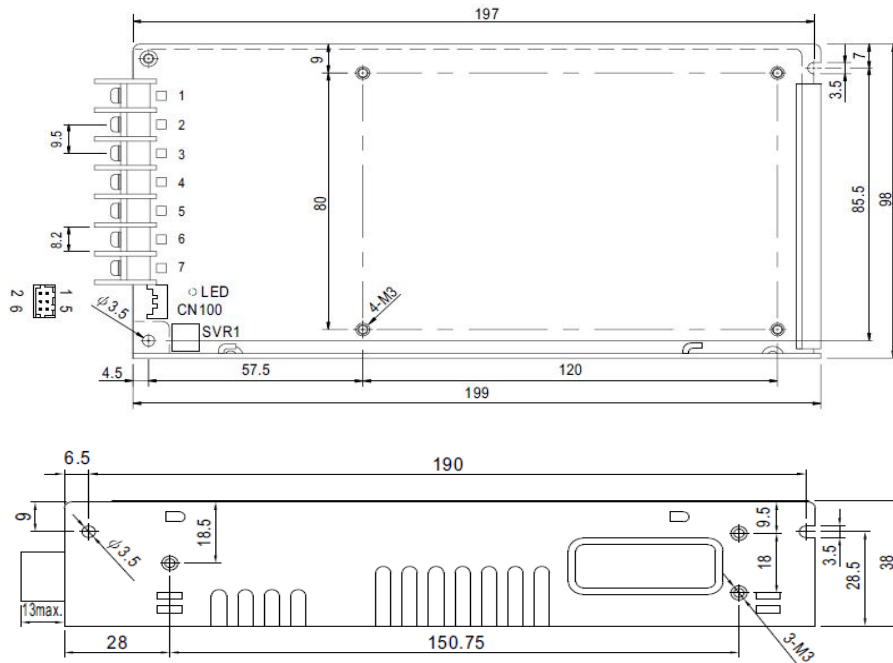
| Model          | Output Voltage | Output Voltage Range | Max Output Current | Efficiency |
|----------------|----------------|----------------------|--------------------|------------|
| HRP(G)-200-3.3 | 3.3 V          | 2.8 to 3.8 V         | 40 A               | 80 %       |
| HRP(G)-200-5   | 5.0 V          | 4.3 to 5.8 V         | 35 A               | 84 %       |
| HRP(G)-200-7.5 | 7.5 V          | 6.8 to 9.0 V         | 26.7 A             | 86 %       |
| HRP(G)-200-12  | 12 V           | 10.2 to 13.8 V       | 16.7 A             | 88 %       |
| HRP(G)-200-15  | 15 V           | 13.5 to 18.0 V       | 13.4 A             | 88 %       |
| HRP(G)-200-24  | 24 V           | 21.6 to 28.8 V       | 8.4 A              | 88 %       |
| HRP(G)-200-36  | 36 V           | 28.8 to 39.6 V       | 5.7 A              | 89 %       |
| HRP(G)-200-48  | 48 V           | 40.8 to 55.2 V       | 4.3 A              | 89 %       |

**Note : (G) versions include 5 Volt stand-by and <0.5 Watt No Load Input Power**

Please see next page for mechanical drawings.

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## Mechanical Drawings.



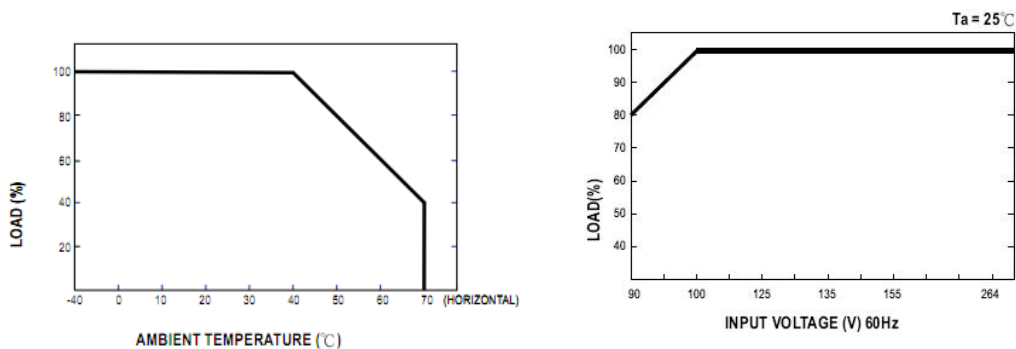
| AC Input & DC Output Connections |             |          |              |
|----------------------------------|-------------|----------|--------------|
| Terminal                         | Function    | Terminal | Function     |
| 1                                | AC Live     | 4,5      | DC Output -V |
| 2                                | AC Neutral  | 6,7      | DC Output +V |
| 3                                | Input Earth |          |              |

Signals Connector Pin No. Assignment (CN100) : HRS DF11-6DP-2DS Or Equivalent ( G Version only has the functions on pins 1 to 4 )

| Pin No | Assignment | Mating Housing             | Terminal                           |
|--------|------------|----------------------------|------------------------------------|
| 1      | RC+        | HRS DF11-6DS Or Equivalent | HRS DF11-<br>**SC<br>Or Equivalent |
| 2      | RC-        |                            |                                    |
| 3      | AUX        |                            |                                    |
| 4      | AUXG       |                            |                                    |
| 5      | +Sense     |                            |                                    |
| 6      | -Sense     |                            |                                    |

\*Standard version has no connections on pins 1-4

## Derating, (Input AC Supply & Temperature)



Specifications may change without notice. E&OE. ALL PSU Terms & Conditions apply.