

|                    |                                |                       |
|--------------------|--------------------------------|-----------------------|
| <b>PART NUMBER</b> | HDP-150C Series                | <b>PAGE</b><br>1 of 2 |
| <b>DESCRIPTION</b> | 150 Watt Enclosed Power Supply |                       |

## HDP-150C Series 150 Watt Embedded Power Supply

### Features

- Universal AC input range / Full range
- Built-in Active PFC function, PF > 0.95
- High efficiency and high reliability
- Output protections: OLP/OVP/SCP
- All using 105°C long life electrolytic capacitors
- 100% full load burn-in test
- 3 year warranty



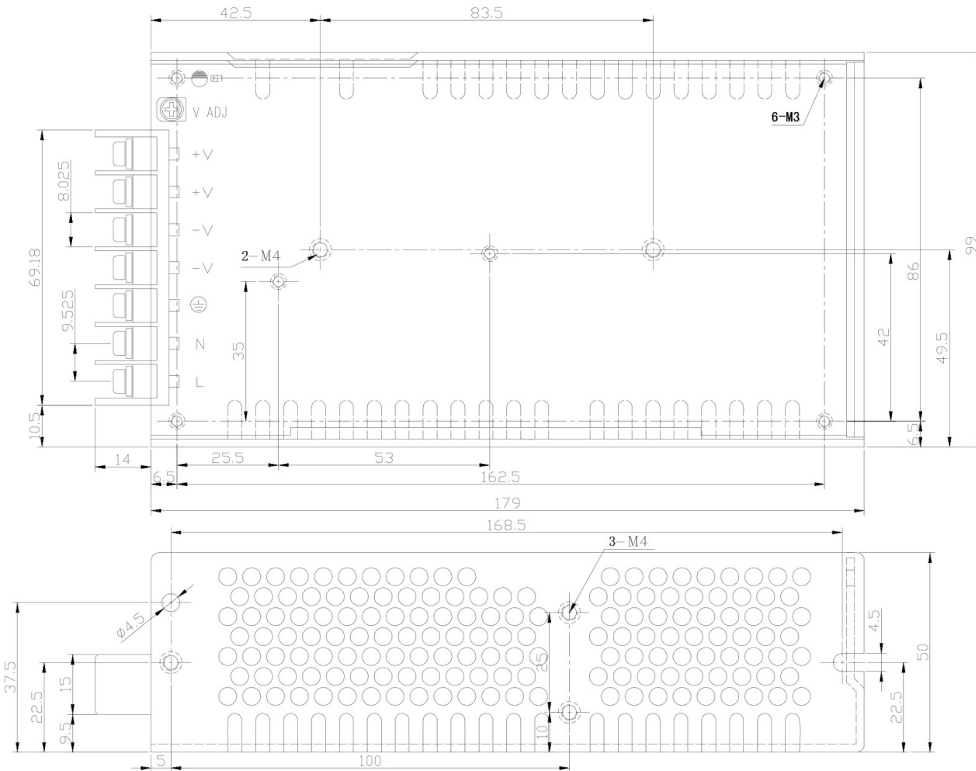
### Specifications

|                          |   | HDP-150C-5  | HDP-150C-12         | HDP-150C-15                                 | HDP-150C-24 | HDP-150C-36 | HDP-150C-48 |     |
|--------------------------|---|---|---------------------|---|-------------|-------------|-------------|-----|
| OUTPUT                   | DC Output   | 5V  | 12V                 | 15V   | 24V         | 36V         | 48V         |     |
|                          | Rated Current   | 30A   | 12.5A               | 10.0A                                       | 6.3A        | 4.1A        | 3.2A        |     |
|                          | Current Range (NOTE 1)  | 0 ~ 30A   | 0 ~ 12.5A           | 0 ~ 10A                                     | 0 ~ 6.3A    | 0~4.1A      | 0~3.2A      |     |
|                          | Ripple and Noise (NOTE 2)   | < 100mV   | < 100mV             | < 100mV                                     | < 150mV     | <240mV      | <240mV      |     |
|                          | Voltage ADJ. Range  | 4.3V~5.6V   | 10.6V~13.5V         | 12.7V~17.0V                                 | 22.1V~26.7V | 33V~40V     | 44V~52V     |     |
|                          | Voltage Accuracy  | ±2.0%   | ±1.0%               | ±1.0%                                       | ±1.0%       | ±1.0%       | ±1.0%       |     |
|                          | Line Regulation   | ±0.5%   | ±0.5%               | ±0.5%                                       | ±0.5%       | ±0.5%       | ±0.5%       |     |
|                          | Load Regulation   | ±1.0%   | ±1.0%               | ±1.0%                                       | ±1.0%       | ±1.0%       | ±1.0%       |     |
|                          | Set-up Time   | <2.0S (115Vac input, Full load);  |                     | <1.0S(230Vac input, Full load)              |             |             |             |     |
|                          | Hold-up Time  | >20mS (115Vac input, Full load)   |                     |   |             |             |             |     |
| Temperature Coefficient  | ±0.03%/°C   |   |                     |   |             |             |             |     |
| Overshoot and Undershoot | < 5.0%  |   |                     |   |             |             |             |     |
| INPUT                    | Voltage Range (NOTE 3)  | 85Vac ~ 264Vac / 120Vdc ~ 370Vdc  |                     |   |             |             |             |     |
|                          | Frequency Range   | 47Hz – 63Hz   |                     |   |             |             |             |     |
|                          | Power Factor (Typical)  | PF>0.98@115VAC  |                     | PF>0.95@230VAC                              |             |             |             |     |
|                          | Efficiency (Typical)  | 115Vac input  | 80%                 | 83%   | 83%         | 84%         | 83%         | 84% |
|                          |   | 230Vac input  | 82%                 | 86%   | 86%         | 86%         | 86%         | 87% |
|                          | AC Current (Max.)   | 2.0A  |                     |   |             |             |             |     |
|                          | Inrush Current (Typical)  | < 30A@115Vac  | < 60A@230Vac        | Cold Start                                  |             |             |             |     |
| Leakage Current          | Input – output: ≤ 0.25mA  |   | Input – PG: ≤ 3.5mA |   |             |             |             |     |
| PROTECTION               | Over Load   | 105%~150% of rated output current, hiccup mode, auto recovery                                 |                     |   |             |             |             |     |
|                          | Over Voltage  | 110%~150% of rated output voltage, shutdown   |                     |   |             |             |             |     |
|                          | Short Circuit   | Long-term mode, auto recovery   |                     |   |             |             |             |     |
| ENVIRONMENT              | Operating amb. Temp. & Hum.   | -25°C ~ 70°C; 20% ~ 90%RH   |                     | No Condensing (refer to the derating curve) |             |             |             |     |
|                          | Storage Temp. & Hum.  | -30°C ~ 85°C; 10% ~ 95%RH   |                     | No Condensing                               |             |             |             |     |
| SAFETY & EMC (NOTE 4)    | Safety Standards  | UL60950-1; EN60950-1: 2006  |                     |   |             |             |             |     |
|                          | Withstand Voltage   | Primary – Secondary: 3.0KVac; ≤10mA Primary – PG:1.5KVac; ≤10mA Secondary – PG:0.5KVDC; ≤10mA |                     |   |             |             |             |     |
|                          | Isolation Resistance  | ≥100M ohms  |                     |   |             |             |             |     |
|                          | EMI Conduction & Radiation  | Compliance to EN55022, Class B  |                     |   |             |             |             |     |
|                          | Harmonic Current  | Compliance to EN61000-3-2, Class D  |                     |   |             |             |             |     |
| OTHERS                   | EMS Immunity  | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, heavy industry level                        |                     |   |             |             |             |     |
|                          | MTBF (MIL-HDBK-217F)  | More than 200,000Hrs (25°C, Full load)  |                     |   |             |             |             |     |
|                          | Dimension (L*W*H)   | 194 x 99 x 50 mm  |                     |   |             |             |             |     |
|                          | Packing   | 10PCS/CTN, G.W:9.0kgs, 0.04CBM  |                     |   |             |             |             |     |
| NOTE                     | Cooling Method  | Cooling by free air convection  |                     |   |             |             |             |     |
| NOTE                     | 1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C ambient temperature<br>2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor<br>3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives<br>4. HDP Power offers accessories for Din-35 rail bar. Please Contact Sales for Details. |   |                     |   |             |             |             |     |

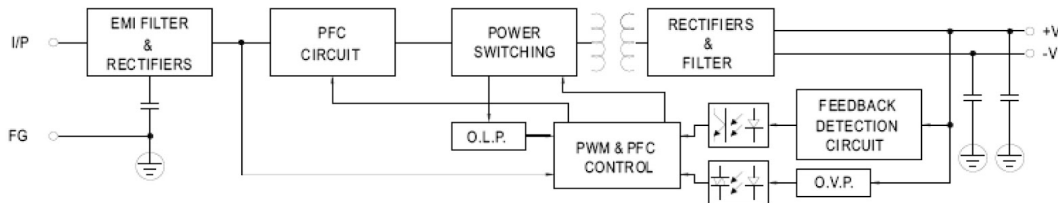
|                    |                                |
|--------------------|--------------------------------|
| <b>PART NUMBER</b> | HDP-150C Series                |
| <b>DESCRIPTION</b> | 150 Watt Enclosed Power Supply |

### Mechanical Specification

Unit: mm (Tolerance is ±1mm)



### Block Diagram



### Derating Curve

