

Features

- Input Voltage 90~305V AC
- Built in Active PFC Function
- Forced air cooling by build-in DC fan
- Approved to UKCA, CE, CB & cURus
- Efficiency up to 90%
- Safety Approved to UL/IEC 62368-1 BS EN/EN 62368-1
- Protection: OLP, OVP, OTP SCP
- Three Years Warranty

RS PRO Enclosed AC/DC

RS Stock No.: 0625752



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

500W Enclosed AC/DC Power Supply (PSU) is certified to UKCA, CE & IEC 62368-1/BS EN62368-1/EN 62368-1 Standards and complies with the relevant Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries.

Input Specifications

| | |
|---------------------|---|
| Rated Voltage Range | 100-277VAC/127-430VDC |
| AC Voltage Range | 90-305VAC/127-430VDC |
| Frequency Range | 50/60Hz |
| AC Current | 5.3A/115VAC 2.65A/230VAC |
| Inrush Current | Cold Start 40A/200us at 230VAC 50Hz Cold Start 20A/200us at 115VAC 50Hz |
| Leakage Current | <2mA/240VAC |
| Power Factor(Typ.) | >0.95/230VAC at full load >0.98/115VAC at full load |

Output Specifications

| | |
|----------------------|---|
| Setup, Rise, Hold up | 1.5s,80ms,18ms/230VAC(at full load) 3.0s,80ms,14ms/115VAC(at full load) |
| Voltage Tolerance | +2.0 |
| Line Regulation | +0.5% |
| Load Regulation | +0.5% |

Protection Specifications

| | |
|------------------|--|
| Over Load | 105~130%Rated Output Power Constant current limiting recovers automatically after fault condition is removed. |
| Short Circuit | Hiccup mode, recovers automatically after fault condition is removed. |
| Over Voltage | 115~135%Rated Output Voltage Shut down o/p voltage, re-power on to recover. |
| Over Temperature | Shut down o/p voltage, recovers automatically after temperature goes down. |

Environmental

| | |
|------------------------|---|
| Working TEMP. | -30 ~ +70°C (Please refer to "Derating Curve" section) |
| Working Humidity | 20 ~ 95%RH Non-condensing |
| Storage TEMP. Humidity | -40 ~ +85°C, 10 ~ 95%RH Non-condensing |
| TEMP. Coefficient | 0±03%/(0 ~ 50°C) on load output |
| Vibration | Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes |
| Safety Protection | Class I |
| Over Voltage Category | OVC III / According to EN62368-1; altitude up to 2000 meters |

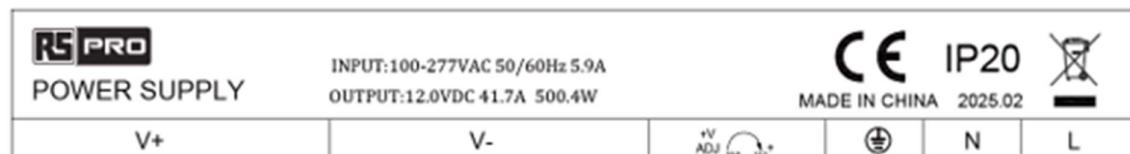
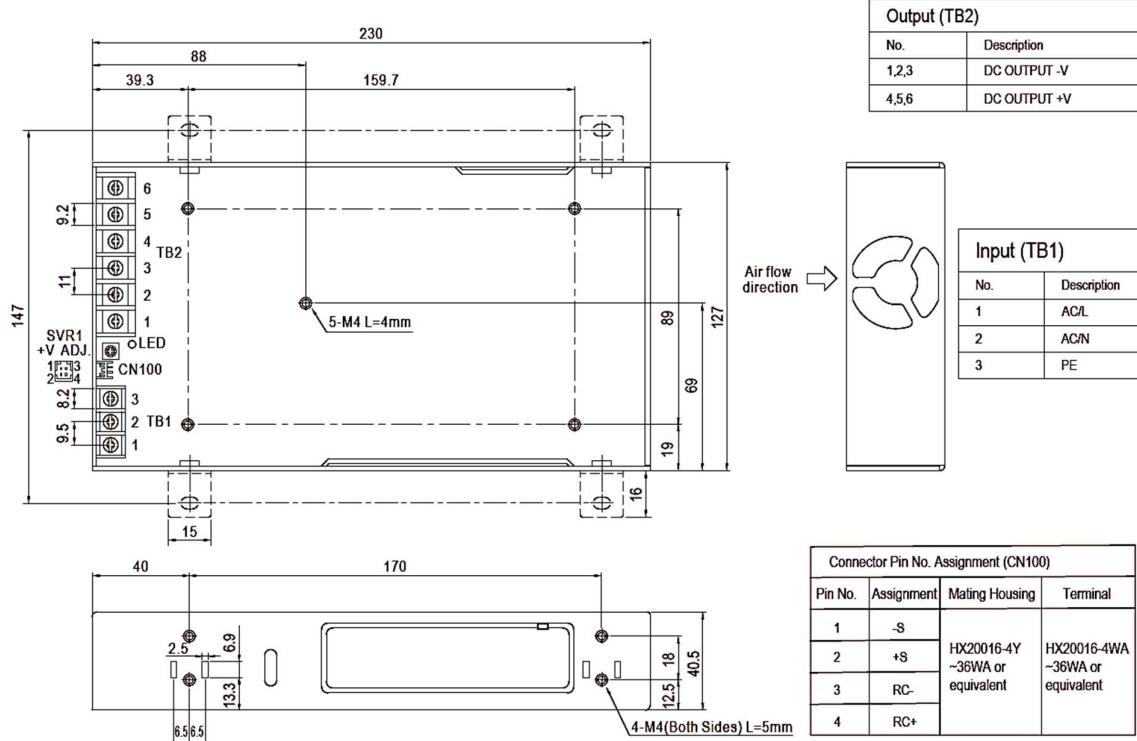
Safety & EMC

| | |
|----------------------|--|
| Safety Standards | BS EN/EN62368-1 |
| Withstand Voltage | I/P-0/P:3KVAC/1min I/P-FG:2KVAC/1min O/P-FG:0.5KVAC/1min |
| Isolation Resistance | I/P-0/P:100M Ohms / 500VDC / 25°C / 70% RH |
| EMC Emission | BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A,BS EN/EN61000-3-3 |
| EMC Immunity | BS EN/EN61000-4-11 Criteria B, BS EN/EN61000-4-2,3,4,5,6,8 Criteria A |

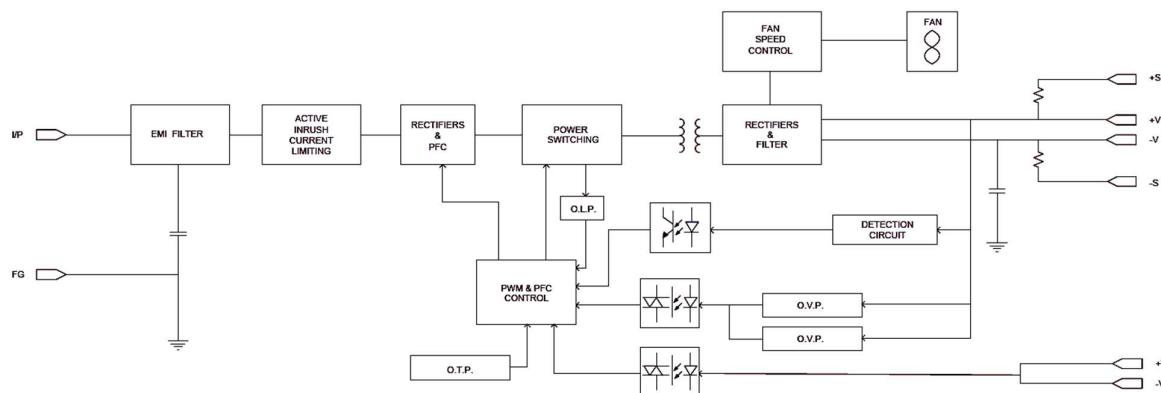
Other Specifications

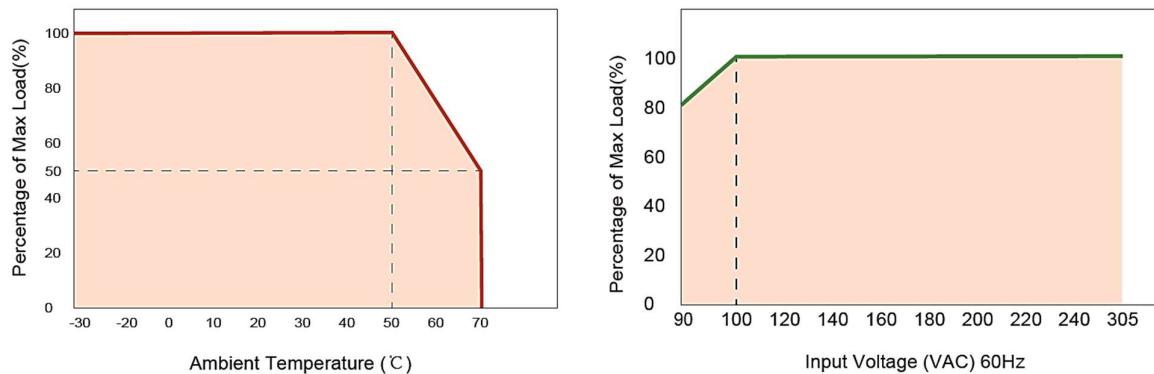
| | |
|---------|---|
| Packing | 1.3kg/pcs; 54 x 30 x 24 cm; 9pcs/carton |
|---------|---|

| | | |
|-------------------|---|---------------------------|
| Dimension (LxWxH) | 230 x 127 x 40.5 mm | |
| MTBF | 176.8Khrs min. MIL-HDBK-217F(25□) | |
| Housing material | Aluminium / steel | |
| Connection Method | Input & Output , Screw connection | |
| Terminal | Input 3 pins / Output 6 pins | |
| Wire | Input 22-12AWG / 0.3246-2.05mm ² 4mm ² | Output 22-10AWG / 0.3246- |
| Stripping length | Input 5-6mm, output 3-4mm | |
| Tightening torque | Input 1.47Nm, output 1.47Nm | |



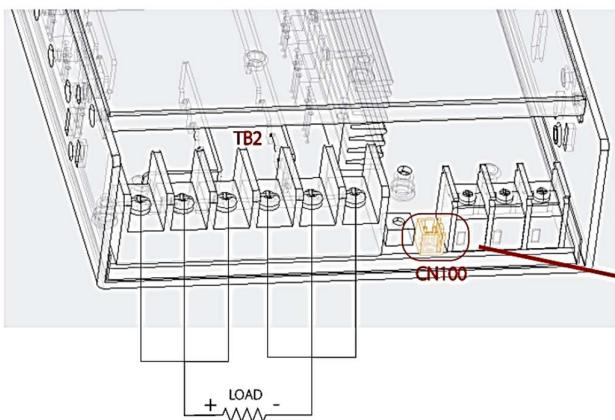
fosc: 100KHz



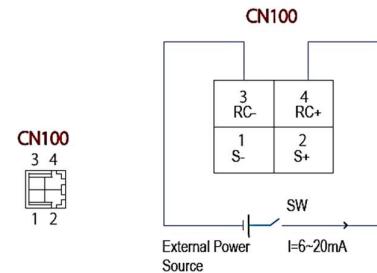


1. Remote Control

The PSU can be turned ON/OFF by using the "Remote Control" function.



| Between RC- (pin3) and RC+ (pin4) on CN100 | PSU Status |
|--|------------|
| SW OFF (0 ~ 0.8VDC) or open | ON |
| SW ON (4 ~ 10V) | OFF |



2. Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.3V

