

Features

- Universal Input 100~240V AC
- Approved to CE, UKCA & RoHS
- IEC/EN61558, IEC/EN60950, IEC/EN61347-2-13, IEC/EN60065, UL 1310 Safety Approved
- Meets Efficiency Level VI
- IP68
- Single Output 12V DC
- OVP, OCP, SCP

RS PRO Lugged Desktop supply

RS Stock No.: 0625739



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.

The RS PRO article is a reliable and efficient 42W External AC/DC Lugged Desktop Power Supply. Designed for use in applications such as telecoms, computing and multimedia systems. This product is supplied with a UK Fixed input connection and supports input voltages of 90~264V AC 50~60Hz.

Certified to and compliant with IEC/EN60950, IEC/EN61558, IEC/EN61347-2-13, IEC/EN60065, UL 1310.

This product range is built for seamless integration into complex ITE, audio, and video system environments.

Input Specifications

Rated Voltage Range	100-277VAC/127-430VDC
AC Voltage Range	90-264 Vac
Frequency Range	50/60Hz
AC Current	1.2A @ full load
Inrush Current	Cold Start 40A/200us at 230VAC 50Hz
Leakage Current	<1mA/240VAC
Power Factor(Typ.)	>0.95/230VAC at full load

Output Specifications

Setup, Rise, Hold up	1.5s,50ms,8ms/230VAC(at full load)	3.0s,50ms,8ms/115VAC(at full load)
Voltage Tolerance	±2.0%	
Line Regulation	±0.5%	
Load Regulation	±0.5%	

Over Load	105~135%Rated Output Power
	Hiccup mode, 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□(Please refer to "Derating Curve" section)
Working Humidity	20 ~ 95%RH Non-condensing
Storage TEMP. Humidity	-40 ~ +85□, 10 ~ 95%RH Non-condensing
TEMP. Coefficient	±0.03%/(0 ~ 50□) 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

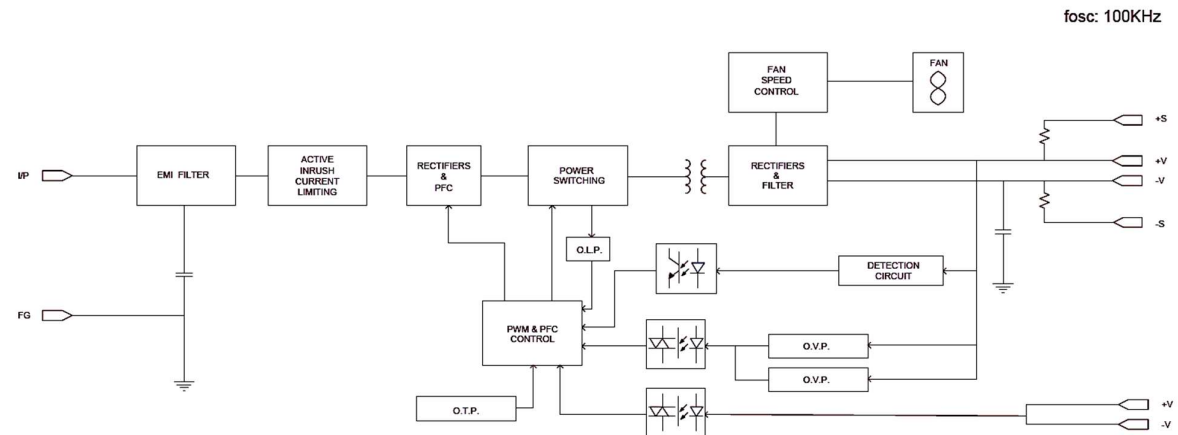
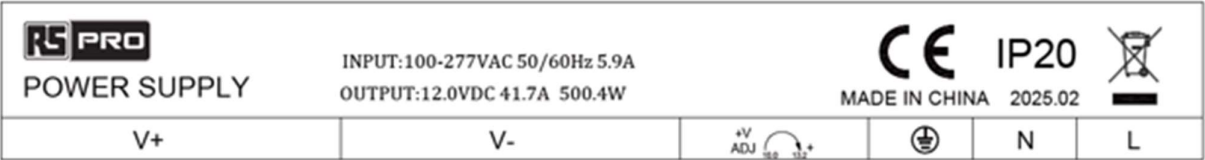
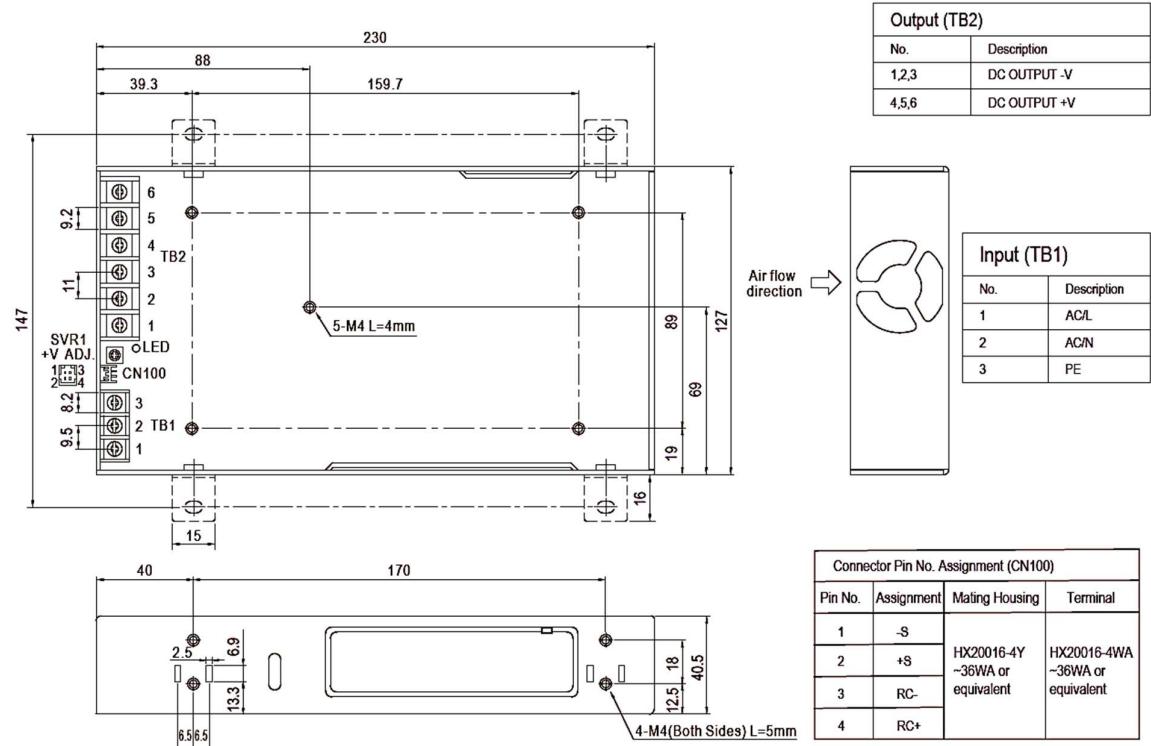
Safety & EMC

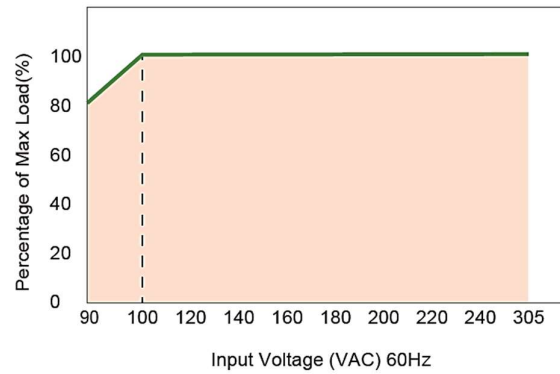
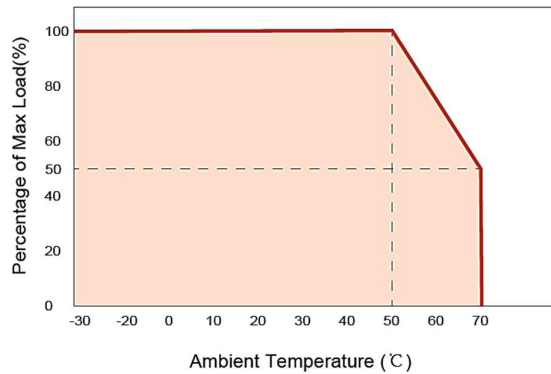
Safety Standards	BS EN/EN62368-1
Withstand Voltage	I/P-O/P:3KVAC/1min I/P-FG:2KVAC/1min O/P-FG:0.5KVAC/1min
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25□/ 70% RH
EMC Emission	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A-D,BS EN/EN61000-3-3
EMC Immunity	Compliance to 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

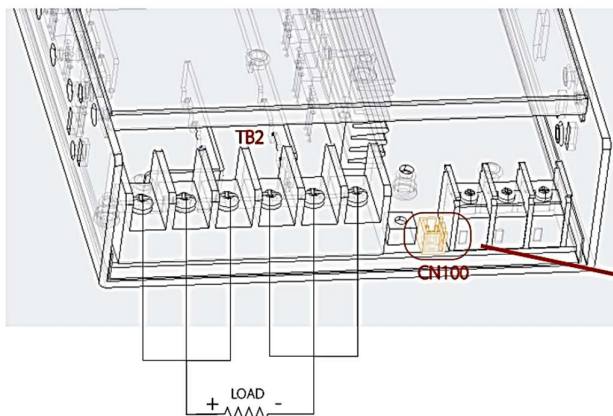
Connection Method	Input & Output , Screw connection	
Terminal	Input 3 pins / Output 6 pins	
Wire	Input 22-12AWG / 0.3246-2.05mm ²	Output 22-10AWG / 0.3246-4mm ²
Stripping length	Input 5-6mm, output 3-4mm	
Tightening torque	Input 1.47Nm, output 1.47Nm	



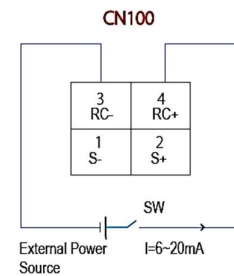


1.Remote Control

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

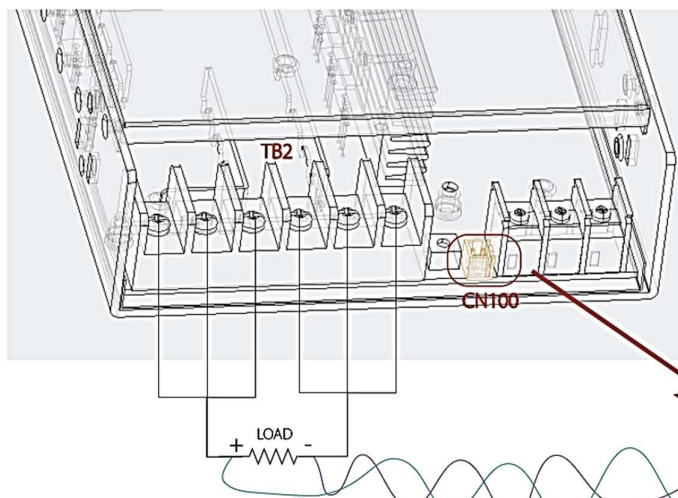


Between RC-(pin3) and RC+(pin4) on CN100	PSU Status
SW OFF (0 ~ 0.8VDC) or open	ON
SW ON (4 ~ 10V)	OFF

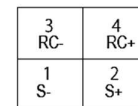


2.Remote Sense

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



CN100



Sense lines should be twisted in pairs