

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.: 0625740



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.

320W Enclosed AC/DC Power Supply (PSU) are certified to UKCA, CE, CB, cURus & IEC 62368-1/UL 62368-1/BS EN62368-1/EN 62368-1 Standards and comply with the relevant Efficiency Regulations.

These are primarily used in ITE, Audio & Video Industries.

Input Specifications

Rated Voltage Range	DC Voltage	Rated Current (max.)	Rated Power	Average Efficiency	Ripple & Noise	Max Capacitive Load	Voltage ADJ Range
0625740	48V	6.7A	321.6W	90%	240 mVp-p	470uF	43.2~52.8V

Input Specifications

Rated Voltage Range	100-277VAC/127-430VDC
AC Voltage Range	90-305VAC/127-430VDC
Frequency Range	50/60Hz
AC Current	4A/115VAC
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	$\pm 2.0\%$	
Line Regulation	$\pm 0.5\%$	
Load Regulation	$\pm 0.5\%$	

Protection Specifications

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

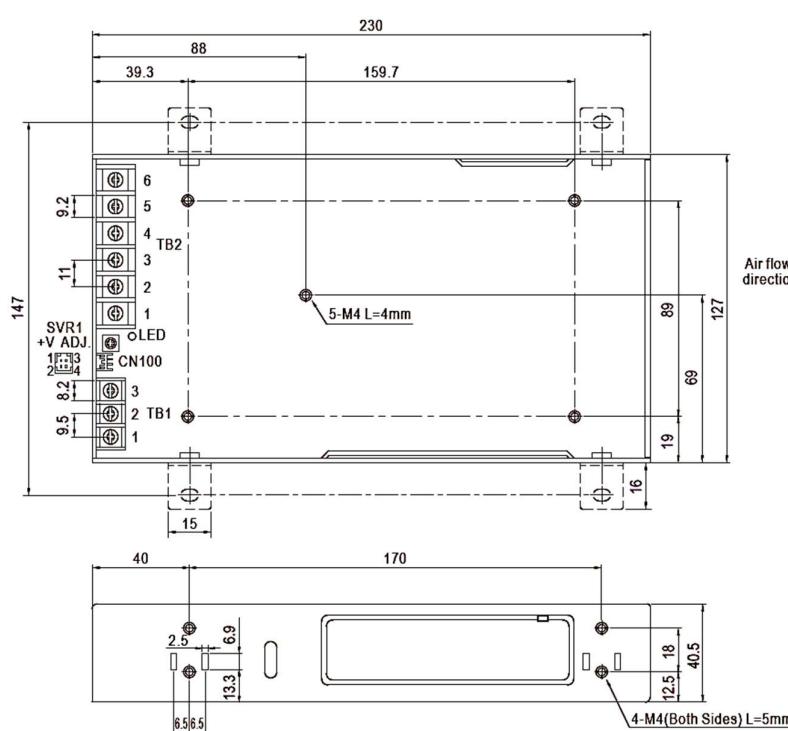
Working TEMP.	-30 ~ +70°C (Please refer to "Derating Curve" section)
Working Humidity	20 ~ 95%RH Non-condensing
Storage TEMP. Humidity	-40 ~ +85°C, 10 ~ 95%RH Non-condensing
TEMP. Coefficient	$\pm 0.03\%/(0 \sim 50^\circ\text{C})$ on load output
Vibration	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. 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	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 \square)
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



Output (TB2)

No.	Description
1,2,3	DC OUTPUT -V
4,5,6	DC OUTPUT +V

Input (TB1)

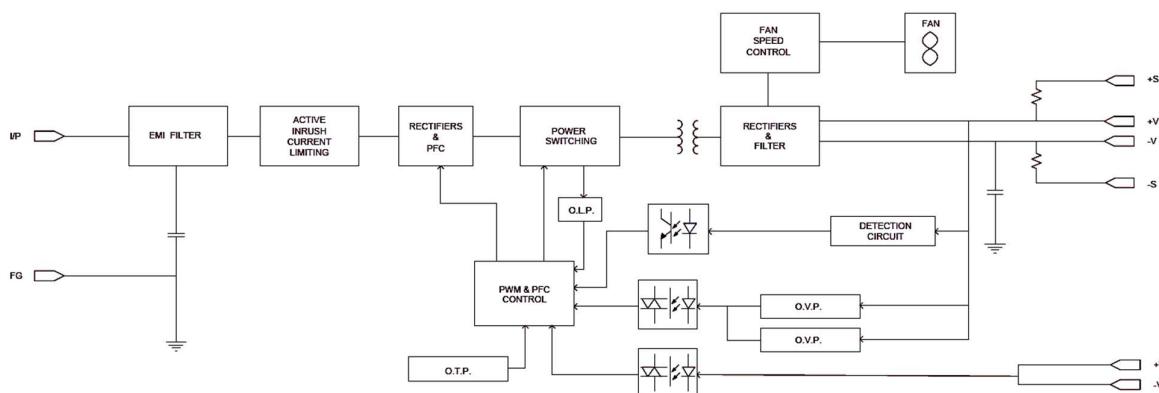
No.	Description
1	AC/L
2	AC/N
3	PE

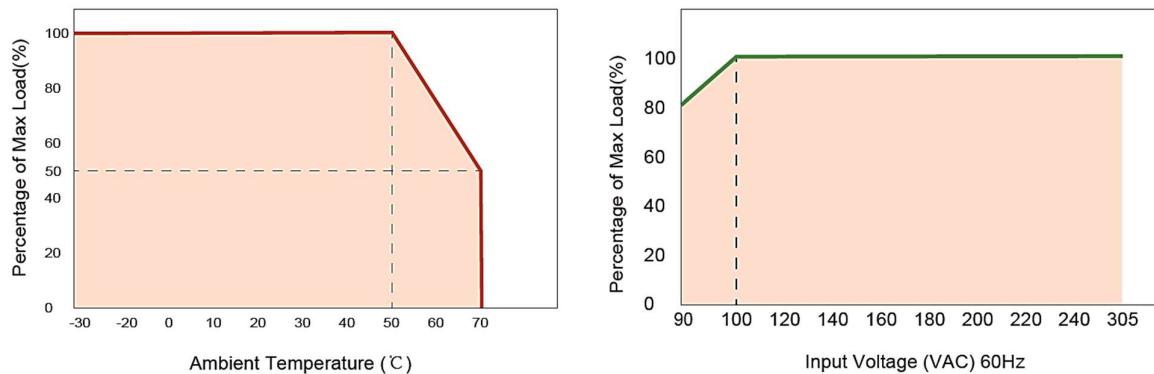
Connector Pin No. Assignment (CN100)

Pin No.	Assignment	Mating Housing	Terminal
1	-S	HX20016-4Y ~36WA or equivalent	HX20016-4WA ~36WA or equivalent
2	+S		
3	RC-		
4	RC+		

RS PRO POWER SUPPLY	INPUT:100-277VAC 50/60Hz 5.9A OUTPUT:12.0VDC 41.7A 500.4W	CE IP20
V+	V-	+V - N L

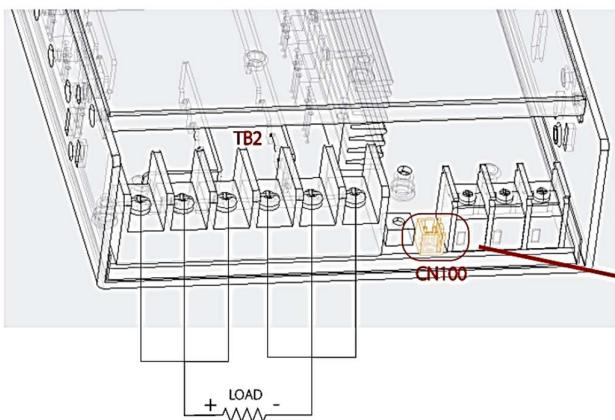
fosc: 100KHz



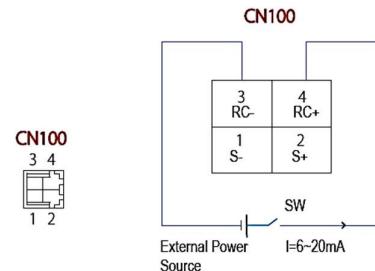


1. Remote Control

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

