

100W Switching Mode power supply

NRP - 2050 (20V5A) / 3630 (36V3A) / 6016 (60V1.6A)

Description

This series of 100W Switching Mode Power Supplies with Current Limiting Control, is designed with the objectives of cost effectiveness, compactness and easy portability.

The slim tower housing makes it ideal for tight work bench. It is light and conveniently portable with a collapsible handle.

The large and illuminated LCD display provides clear and sharp readings even under dim light. The output power on off switch allows safe and handy operations. The Tracking OVP (Output Over Voltage Protection) ensures a better and tighter protection to voltage sensitive loads. It has good line and load regulations, high efficiency and low ripple & noise that are typical of advanced switching mode power supply.

It meets the CE safety standards of EN-61010 for laboratory grade power supply and respective EMC standards.

Features

- Automatic Cross over CV and CC mode
- Illuminated LCD indications of A, V, Output On-OFF, CC & CV.
- 3 digit displays of Volt and Amp meters
- Voltage and Current controls
- Compact slim tower housing
- Collapsible handle
- Output power on off switch at front panel
- Natural Convection
- Tracking OVP (output over voltage protection), Short circuit, overload and over temperature protections.
- Good line, load regulations and low ripple and noise
- CE approvals



Specifications

| | <i>NRP - 2050</i> | <i>NRP-3630</i> | <i>NRP-6016</i> |
|--|--|--|--|
| Input Voltage (Jumper Selection) | 90 - 130 / 180 - 240Vac , 50Hz~ | | |
| Full Load Input Current at 230Vac | 0.83A | | |
| Output Voltage Adjustable Range | 1.0 - 20Vdc | 1.0 - 36Vdc | 1.0 - 60Vdc |
| Output Current Adjustable Range | 0 - 5A | 0 - 3A | 0 - 1.6A |
| Voltage Regulation | | | |
| Load from 10% to 100% Variation | 70mV | 50mV | 50mV |
| Line from 180 to 264Vac Variation | 20mV | | |
| Ripple & Noise in r.m.s. | 5mV | | |
| Ripple & Noise (peak to peak) | 30mV | 30mV | 50mV |
| Current Regulation | | | |
| Load from 10% to 100% Variation | 20mA | | |
| Line from 180 to 264Vac Variation | 20mA | | |
| Ripple & Noise (peak to peak) | 20mA | | |
| Switching Operation Frequency | 80KHz to 120KHz | | |
| Power Factor | 0.68 | | |
| Efficiency at Maximum Power | 84% | 85% | 85% |
| Voltmeter and Ammeter Display | 3 Digit | | |
| Voltmeter Accuracy | ±1% +5counts for range V≤5V ±1% +3counts for range V>5V | ±1% +5counts for range V≤10V ±1% +3counts for range V>10V | ±1% +5counts for range V≤20V ±1% +3counts for range V>20V |
| Ammeter Accuracy | ±1% +5counts for range I≤2A ±1% +3counts for range I>2A | ±1% +5counts for range I≤1A ±1% +3counts for range I>1A | ±1% +5counts for range I≤0.5A ±1% +3counts for range I>0.5A |
| LCD Indication | CC, CV, Amp, Volt, Output ON-OFF | | |
| Protection | Short Circuit, Overload, Over Temperature, Tracking OVP | | |
| CE Approvals | LVD : EN 61010 , EMC : EN 55011 | | |
| Cooling System | Natural Convection | | |
| Dimensions in mm (WxHxD) | 70 x 150 x 250mm / 2.8 x 6.0 x 9.8in. | | |
| Weight in Kg | 2Kgs / 4.4Lbs | | |

All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE *