Order code	Manufacturer code	Description
85-1901	n/a	n/a
85-1902	n/a	n/a
85-1903	n/a	n/a

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NSP - 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 high accuracy, compactness and easy portability.

Wire wound potentiometers are used for voltage and current control.

4 digit display LCD of voltage and current for high precision. 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.
- 4 digit displays of Volt and Amp meters
- Wire wound potentiometers for Voltage and Current controls
- Voltage and Current controls
- Compact slim tower housing
- Collapsible handle
- Output power on off switch at front panel
- Natural Cinvection
- 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

	NSP - 2050	*NSP-3630*	*NSP-6016*
Input Voltage (Jumper Selection)	90 - 130 / 180 - 260Vac , 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%
Volt and Amp Potentiometer Type	Wire Wound		
Voltmeter and Ammeter Display	4 Digit		
Voltmeter Accuracy	±0.5% +5counts for range V≤5V ±0.5% +3counts for range V>5V	±0.5% +5counts for range V≤10V ±0.5% +3counts for range V>10V	±0.5% +5counts for range V≤20V ±0.5% +3counts for range V>20V
Ammeter Accuracy	±0.5% +5counts for range I≤2A ±0.5% +3counts for range I>2A	±0.5% +5counts for range I≤1A ±0.5% +3counts for range I>1A	±0.5% +5counts for range I≤0.5A ±0.5% +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 *