

LABORATORY GRADE POWER SUPPLY with C.C. CONTROL

NSP - 2050 / 3630 / 6016
100W Switching Mode Power Supply

Manson[®]



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.

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

- Open circuit current limiting setting capability
- 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
- Coarse & Fine 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
- Rotary encoder control
- CE approvals

Specifications

Models	NSP - 2050	NSP - 3630	NSP - 6016
Input Voltage (Jumper Selection)	200 - 240VAC , 50/60Hz~ (or on request)		
Full Load Input Current at 230VAC	0.83A		
Output Voltage Adjustable Range	1 - 20VDC	1 - 36VDC	1 - 60VDC
Output Current Adjustable Range	0.25 - 5A	0.25 - 3A	0.25 - 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	≤50mV	≤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		>0.65
Efficiency at Maximum Power	≥80.5%	≥83%	≥84%
Display	4digit LCD		
Volt. Meter 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
Curr. Meter 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	C.C. , C.V. , Amp , Volt. , output on/off		
Protection	Short Circuit, Overload, Over Temperature, Tracking OVP		
Approvals	CE EMC: EN55011 LVD: EN61010		
Cooling System	Natural Convection		
Dimensions (WxHxD)	70x150x250 mm 2.8x6x9.8 inch		
Weight	Approx. 2 kgs 4.4 lbs		

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

■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE