REMOTE PROGRAMMING LABORATORY GRADE POWER SUPPLY
Constant Power Switching Mode Power Supply with Ethernet Network Connectivity / 3 DC Voltage Ramp Generators / 32 bit MCU Next Generation Power Supply
SSP - 8080

USB

Manson®

Description

This DC power supply is capable of generating Ramp and other forms of DC waveform .An ARM construction RISC 32bit micro-processor is used for such DC waveforms. There are 3 voltage generators which can either be panel controlled or by remote programming via USB port.
Through the various combinations of the settings in the time gradient and period of the generated voltages, various repeatable ramp up /down , step , triangle , and other designed wave forms of output voltage can be obtained from setting of V , I & T.
In the remote programming mode various repetitive cycles with different cycle period , voltage and current can be set in the connected PC and data logging as well.
With the addition of optional Ethernet control card, the power supply is capable of LAN or WAN connection such that it can be communicated ,controlled , monitored , and data logging via the internet. One PC can take care of 250 power supplies even with C type of Ethernet.
This power supply is ideal for R&D laboratory , education , burn in test especially for devices where the effect of irregular DC wave forms or surge is critical.
We do provide application software, USB driver, command sets , Ethernet software, and Labview driver.
Please download the user manual from our website for more information of the operation and other features of this high tech laboratory power supply.

Features

DC Ramp, Step & other Wave form generation
- 3 sets of voltage generators with 0 to 600 seconds output time
- Time from one generator to another 0-20 seconds
- Merging of any two generators to form DC waveforms
- Can be done on unit from panel or by PC .

Remote Programming & Network connectivity
- Remote setting of DC wave form generation with waveform indication on PC
- Remote programming of output voltage, current, cycle period, number of cycles and data logging by PC.
- Optional Ethernet card allows control, programming, data logging of power supply through the internet or other networks. .

Electrical
- Constant Power SMPS with 3 VI configurations
  0-16.4V/0-5.1A; 0-27.6V/0-3.1A; 0-36.8V/0-2.3A
- Adjustable Upper Current & Voltage limits in addition to Tracking OVP and CC.
- 4 digit LED displays & output on-off switch
- Coarse & fine tuning selection
- 3 user presets of V&I
- key pad lock function
- Remote sensing and Analogue remote control of V, I , on-off and VI configuration without PC.

Specifications

Models	SSP - 8080
Input Voltage Range	100 - 240VAC
No Load Input Current at 230VAC	≤0.13A
Full Load Input Current at 230VAC	≤0.5A
AC Input Frequency	47 - 63Hz~
Efficiency	≥78%
Power Factor	≥0.9
Constant Voltage and Current Range Selection:	
0 - 16V / 5A selection I	0 - 16.4V 0 - 5.1A
0 - 27V / 3A selection II	0 - 27.6V 0 - 3.1A
0 - 36V / 2.2A selection III	0 - 36.8V 0 - 2.3A
Constant Voltage Characteristics:	
Load Regulation (0 - 100%)	≤30mV
Line Regulation (±10%)	≤4mV
Ripple & Noise (peak-peak)	≤30mV
Constant Current Characteristics:	
Load Regulation (0 - 100%)	≤10mA
Line Regulation (±10%)	≤10mA
Voltmeter & Ammeter Accuracy	±0.5% +5counts
User adjustable upper current & voltage limits	Yes
Number of preset recalls of frequent use V&I setting	3
Remote Sensing	Yes
Ramp Step Irregular Waveform Functions	
Number Voltage Generators	3 (A, B, C)
Available Number of Combinations of Voltage Generators	6 (AB, BA, AC, CA, BC, CB)
Settable Output Time Period of each Voltage Generators	0 to 600 seconds
Settable Time Period One Voltage Generator to Another	0 to 20 seconds
Remote Programmable / Control by PC	Output ON/OFF, Voltage & Current Control, Selection of Voltage and Current Range, Programmable of cyclic output and data logging of output
Protection	Adjustable over voltage protection, Current limiting protection, Short circuit, Overload, Over temperature
Standard Communication Port	USB 1.1
Optional Interface Accessory	Ethernet Control Broad (ZNE-100PT) Factory Pre-installed or User Installable
Provided Software	USB Driver, Command Sets, Ethernet Setting Software, Labview® Driver for Ethernet
Approvals	CE EMC: EN 55011 LVD: EN 61010
Cooling Method	Natural Convection
Dimensions (WxHxD)	53.5x127x330 mm 2x5x13 inch
Weight	Approx. 1.9 kgs 4.2 lbs

- All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.
- SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE