



Description

This is a series of cost effective Switching Mode programmable power supplies with full remote programming and data logging functionality.

A programmable cyclic sequence of up to 20 sets of operational periods, voltage, & limiting current level can be set at the unit's keypad or by remote PC (Personal Computer) interface.

Groups of control settings and cyclic sequence can be stored in the PC and input to selected power supply via RS232/RS485.

With our supplied software, all the collected data of output voltage & current from each power supplies during operation can be stored as XLS (Excel®) file format in the PC.

When using RS-485, one personal computer can control and data log as many as 31 power supplies of different models of the same series.

In addition to our supplied software, Command Sets and Labview® driver are supplied with the unit so that users can integrate with their own software.

In the stand alone operation, the informative LCD display guides users for various functions such as preset output, programmable cyclic sequence operation.

In addition to the tracking OVP (Over output Voltage Protection), there is an upper output voltage limit which prevents voltage setting over the preset limit.

The output upper voltage limit is user preset.

This feature prevents damage to voltage sensitive load.

Typical Applications

R & D works, Quality control, Production especially in applications which require groups of different settings of output voltage, current limit levels for various cyclic operation period and records of outputs readings with dynamic loading during tests.

It is ideal for applications with multiple power supplies at various locations with one centralized PC control.

Main Features

- Full remote programming and data logging.
- Local or remote programmable cyclic run up to 20 sets of V, I, operational period.
- Built in RS-232/485 interface which controls up to 31 units.
- Supplied with software, command sets and Labview® driver.
- 9 user preset outputs at keypad
- CC & CV indicators with auto-cross over.
- 4 digit ammeter, voltmeter and power meter display.
- Tracking OVP and user preset max. output voltage.



SPECIFICATIONS

Output Voltage
Output Current
Output Rated Power
Ripple & Noise (P-P)
Load Regulation
Line Regulation
Input Voltage
Input Power (Maximum)
Power Factor
Display Meter
Meter's Accuracy
LCD Dimension
Cooling System
Operating Temperature
Protections
Approvals
Dimension (WxHxD)
Weight
Accessories

Optional Accessory
Remarks

PREMIER-10.1	PREMIER-5.1	PREMIER-33.1
1 - 20V DC	1 - 40V DC	1 - 60V DC
0 - 10A	0 - 5A	0 - 3.3A
200W		
30mV p-p		
300mV	200mV	150mV
10mV		
100 - 240VAC, 50Hz / 60Hz		
285W		
≥ 0.9		
4 digit - display LCD ammeter, voltmeter and power meter		
(±1% +5 counts for range V<5V, I<0.5A) (±1% +2 counts for range V ≥5V, I ≥0.5A)		
48 x 66mm		
Thermostatic control fan		
0 - 40° C		
Tracking OVP (over voltage protection), Current Limiting and Over Temperature Protection		
CE EMC-EN 55011, LVD-EN 61010		
193 x 98 x 215 (mm)		
3 KG		
User's manual, PC Window® software, Command set, LabView® driver, RS-232 cable, RS-485 Connector and one 120ohm Resistor		
RS-232 to RS-485 Adapter ATR-2485		
Adjustable Upper Voltage Limit, Power Factor Correction		

REMOTE PROGRAMMING SPECIFICATIONS

Communication Interface
Remote Programming Functionality
Data Logging
Baud Rate

RS-232 and RS-485 (up to 31 power supply)
Full control of power supply functions and data read-back
Yes with supplied software
9600 bps

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