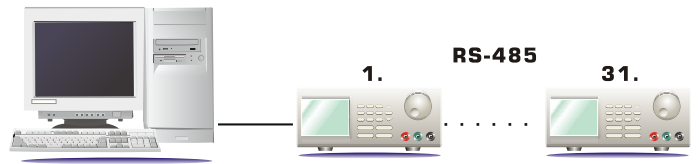


SDP-Series

Remote Programming Switching Mode DC Regulated Power Supply



SDP-Series

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.

The cycles can be set to run from 1 to 256 cycles or repeat infinitely until manual stop.

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.

Features

- Full remote programming and data logging.
- Local or remote programmable cyclic run up to 20 sets of V, I, operational period.
- 1 to 256 cycles or infinite cycles can be programmed.
- Built in RS-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

Models	SDP-2210	SDP-2405	SDP-2603
Output Voltage	1 - 20VDC	1 - 40VDC	1 - 60VDC
Output Current	0 - 10A	0 - 5A	0 - 3A
Output Rated Power	200W		
Ripple & Noise (peak-peak)	30mVp-p		
Load Voltage Regulation	300mV	200mV	150mV
Line Voltage Regulation	10mV		
Input Voltage	100 - 240VAC, 50/60Hz~		
Input Power	285W		
Power Factor	≥0.9		
Display Meter	4 digit - Display LCD Ammeter, Voltmeter & Power meter		
Meter Accuracy	±1% +5counts for V<5V, I<0.5A ; ±1% +2counts for V≥5V, I≥0.5A		
LCD Dimension	48 x 66 mm		
Cooling System	Thermostatic Control Fan		
Operating Temperature	0 - 40°C		
Protections	Tracking OVP (Over Voltage Protection), Current Limiting & Over Temp.		
Approvals	CE EMC: EN55011 LVD: EN61010		
Dimensions (WxHxD)	193x98x215 mm 7.6x3.9x8.5 inch		
Weight	Approx. 3 kgs 6.6 lbs		
Accessories	User Manual, Application Software for windows®, LabView™ Driver, VB Driver, Command Set, RS-232 Cable, RS-485 Connector and One 120Ohm Resistor		
Optional Accessory	RS-232 to RS-485 Adaptor (ATR-2485)		
Remarks	Adjustable upper voltage limit, Power Factor Correction		
Remote Programmable Specifications			
Communication Interface	RS-232 to RS-485 (up to 31 Power Supplies)		
Remote Programming Functionality	Full Control of Power Supply Functions and Data Read-back		
Data Logging	Yes, with supplied software		
Baud Rate	9600bps		

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

■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE