

SPECIAL PURPOSE POWER SUPPLY

PSM - 3030 / 5020

High Power Industrial Grade Linear Mode DC Regulated Power Supply
w/ Full Remote Programming & Remote Sensing



Description

This series merge the low ripple, high precision output of industrial graded Linear Regulated Power Supplies with Full Remote Programming, Data Logging & Remote Sensing functionality.

The popular RS-232 and versatile RS-485 interface are built in with the unit for full remote programming and data logging with personal computer.

One PC can control and data log up to 31 power supplies of different models of this series via RS-485 Adapter.

The power supply can operate up to 9 different sets of voltage and limit current; and 20 sequential timed-steps at the front panel.

With our software, 100 sequential timed-steps of different sets of voltage, current and running time, up to 999 repetitive cycles can be programmed using any computer.

All the collected data from each power supplies during operation can be stored in MS Excel™ (.xls) format.

Command Set and LabView® driver are given, so that users can integrate with their own software with the power supply for full remote programming.

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

This feature is vital in preventing damage to delicate, voltage sensitive test piece.

The ANALOGUE REMOTE CONTROL feature allows for full control including output on/off of the power supply without computer in a stand alone situation.

Features

- Linear mode for high precision, low noise output,
- Excellent Load and Line regulation,
- Analogue remote programming and data logging,
- Built-in RS-485 interface which can control up to 31 units,
- Supplied with software, command sets and LabView™ driver,
- Local or remote programmable cyclic run up to 20 sets of V, I, operational periods,
- 9 preset voltage and current at keypad and software,
- 20 sequential timed steps can be stored in power supply or computer,
- 100 sequential timed steps can be stored in computer,
- Remote Sensing and separate Analogue Remote Control terminals
- CC & CV indicators with auto-cross over,
- 4 digits LED high resolution ammeter and voltmeter,
- Tracking OVP and user preset maximum output voltage.

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 output reading with dynamic loading during tests. It is ideals for applications with multiple power supplies at various locations with one centralized PC control.

Specifications

Models	PSM-3030	PSM-5020
Output Voltage	0-30VDC	0-50VDC
Output Current	0-30A	0-18A
Output Rated Power	900W	
Ripple & Noise (r.m.s.)	4mVrms	6mVrms
Load Voltage Regulation	0.02% +5mV	
Line Voltage Regulation	0.02% +5mV	
Load Current Regulation	0.2% +10mA	0.1% +10mA
Line Current Regulation	0.1% +10mA	
Input Voltage	230VAC 50Hz~ (120VAC 60Hz~ or on request)	
Display Meter	4 digit LED Display (Ammeter & Voltmeter)	
Voltmeter Accuracy	0.5% +2 count	0.5% +3 count
Ammeter Accuracy	0.5% +2 count	0.5% +2 count
Indicators	Constant Current & Constant Voltage LED Indicators	
Cooling System	Fan Cooling	
Operating Temperature	0 - 40°C	
Protections	Tracking OVP (Over Voltage Protection), Current Limiting & Over Temp.	
Approvals	Designed and Manufactured to meet CE	
Dimensions (WxHxD)	357x186x441 mm 14x7.3x17.4 inch	
Weight	Approx. 28 kgs 62 lbs	
Accessories	User Manual, Application Software for Windows®, LabView™ 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	
Remote Programmable Specifications		
Communication Interface	RS-232 & 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