

Programmable Multi-Range D.C. Power Supply



PSB-1000 Series



FEATURES

- * LCD Display and User-Friendly Menu-Typed Functional Interface
- * Voltage Rating : 40V/160V, Output Power Rating : 400W/800W
- * Constant Power Output for Multi-Range(V & I) Operation
- * The I/V Control Functions(Adjustable Slew Rate) are Suitable for Diode Characteristic Load & Surge Reducing
- * Sequence Function for Sequential D.C. Waveform Output
- * C.V/C.C Priority
- * Auto Run for Output or Sequence Function
- * Master-Slave Operation : 2 Units in Series/ 4 Units in Parallel
- * Synchronized Operation(Voltage Trigger, Trigger In/Trigger Out Signal)
- * Standard Interface : USB Host, LAN; Option : GPIB
- * Internal Sense Control(Disable/Front Panel/ Rear Panel)Function
- * LabVIEW Driver

PSB-106 Basic accessory kit :

M4 Terminal screws and washers x 2,
M8 Terminal bolts, Nuts and washers x 2,
Analog control protection dummy x 1,
Analog control lock level x 2, Short bar x 1



PSB-1000 is a series of Multi-Range DC Power Supply, whose maximum voltage output of 320V can be realized by placing 2 sets of 160V units in series connection. By connecting 4 sets of PSB-1800L units in parallel, the maximum current output of 320A can be achieved.

The PSB-1000 series is a bench-top power supply featuring user friendly interface, which can clearly display setting conditions and measurement results via LCD display and menu-typed functionality selection without referring to the user manual. All settings can be done by functionality keys, numerical keys, and speed dial keys. The 30A output capability from the front output terminal of the PSB-1000 series can better meet the requirements of laboratories and scientific R&D departments.

The PSB-1000 series features user friendly menu-typed functionality interface and its built-in functionalities can better meet industry's application requirements. Both front panel and rear panel output terminals of the PSB-1000 series facilitate researchers to access power output conveniently. The display panel adopts menu-typed functionality selection to help users quickly familiarize with settings and operation that is extremely suitable for on-site engineers and R&D engineers who deal with complicated functional setting requirements. Power On Configuration allows users to select previously set SEQ to carry out automatic execution as soon as power is turned on. For production lines demanding sequential power supply output application requirements, tremendous time can be saved by this function, which exempts users from resetting sequential power supply when power is turned on every single time.

Voltage Trigger allows users to set pulse signals for leading edge threshold and trailing edge threshold. VOLT TRIG can be applied to Automatic test system by providing output time for working voltage via BNC adapter. The Output Delay function facilitates users to respectively set action time for power output on and power output off for multiple sets of PSB-1000 so as to realize sequential power output applications.

The PSB-1000 series is equipped with multi range power output capability providing fourfold rated power output to meet customers' flexible application requirements.

SPECIFICATIONS

Model Name	PSB-1400L	PSB-1400M	PSB-1800L	PSB-1800M
OUTPUT RATING				
Output Voltage(V)	0~40	0~160	0~40	0~160
Output Current(A)	0~40	0~10	0~80	0~20
Output Power(W)	400W	400W	800W	800W
REGULATION (CV)				
Load Regulation (mV)	25	85	25	85
Line Regulation (mV)	23	83	23	83
REGULATION (CC)				
Load Regulation (mA)	45	15	85	25
Line Regulation (mA)	45	15	85	25
RIPPLE & NOISE (Noise Bandwidth 20MHz ; Ripple Bandwidth = 1MHz)				
CV p-p	60	60	80	80
CV rms	7	12	11	15
CC rms	80	20	160	40
PROGRAMMING ACCURACY				
Voltage (mV) 0.1% +	10	50	10	50
Current (mA) 0.1% +	20	10	40	20
MEASUREMENT ACCURACY				
Voltage (mV) 0.1% +	10	50	10	50
Current (mA) 0.1% +	20	10	40	20
RESPONSE TIME				
Raise Time (ms)	50	100	50	100
Fall Time(Full load) (ms)	50	150	50	150
Fall Time(No load) (ms)	500	1200	500	1200
Load Transient Recover Time(ms) (Load change from 50 to 100%)	1	1	1	1
PROGRAMMING RESOLUTION (By PC Remote Control Mode)				
Voltage (mV)	1	3	1	3
Current (mA)	1	1	2	1
MEASUREMENT RESOLUTION (By PC Remote Control Mode)				
Voltage (mV)	1	3	1	3
Current (mA)	1	1	2	1
SERIES AND PARALLEL CAPABILITY				
Parallel Operation	Up to 4 units including the master unit			
Series Operation	Up to 2 units including the master unit			
PROTECTION FUNCTION				
OVP (V)	4-44	5-176	4-44	5-176
OCP (A)	4-44	1-11	5-88	2-22
OHP	Turn the output off.	Turn the output off.	Turn the output off.	Turn the output off.



PSB-1000 Series

SPECIFICATIONS

Model Name	PSB-1400L	PSB-1400M	PSB-1800L	PSB-1800M
FRONT PANEL DISPLAY ACCURACY (4 Digits)				
Voltage (mV)	0.1% + 20	100	20	100
Current (mA)	0.1% + 20	10	40	20
ENVIRONMENT CONDITION				
Operation Temp	0°C ~ 40°C			
Storage Temp	-25°C ~ 70°C			
Operating Humidity	20% ~ 85% RH; No condensation			
Storage Humidity	90% RH or less; No condensation			
OTHER				
Analog Control Interface	Yes			
Power Source	100Vac ~ 240Vac, 50Hz ~ 60Hz, single phase			
Dimension	214(W)×124(H)×350(D) mm			
Weight	Approx. 5.2kg	Approx. 5.2kg	Approx. 6.8kg	Approx. 6.8kg

ORDERING INFORMATION

PSB-1400L	40V/40A/400W Programmable Multi-Range D.C. Power Supply
PSB-1400M	160V/10A/400W Programmable Multi-Range D.C. Power Supply
PSB-1800L	40V/80A/800W Programmable Multi-Range D.C. Power Supply
PSB-1800M	160V/20A/800W Programmable Multi-Range D.C. Power Supply

ACCESSORIES :

CD ROM (User Manual, Programming Manual) x 1, Power cord for UL/CSA or PSE(Region dependent), Output terminal cover, Type A-B USB cable, PSB-106 Basic accessory kit : M4 terminal screws and washers x 2, M8 Terminal bolts, Nuts and washers x 2, Analog control protection dummy x 1, Analog control lock level x 2, Short bar x 1

OPTIONAL ACCESSORIES

PSW-001	Analog remote control connector kit
PSW-002	Simple IDC tool
PSW-003	Contact removal tool
PSB-101	Cable for 2 units of PSB-1000 in parallel connection
PSB-102	Cable for 3 units of PSB-1000 in parallel connection
PSB-103	Cable for 4 units of PSB-1000 in parallel connection
PSB-104	Cable for 2 units of PSB-1000 in series connection
PSB-105	GPIB card
PSB-106	Basic accessory kit : M4 Terminal screws and washers x 2, M8 Terminal bolts, Nuts and washers x 2, Analog control protection dummy x 1, Analog control lock level x 2, Short bar x 1
GRA-418-J	Rack Mount Kit(IIS)
GRA-418-E	Rack Mount Kit(EIA)
GTL-123	Test leads:1x red,1x black

FREE DOWNLOAD

Driver	Labview Driver
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Rear Panel



PSB-101 Cable for 2 units of PSB-1000 in parallel connection



PSB-102 Cable for 3 units of PSB-1000 in parallel connection



PSB-103 Cable for 4 units of PSB-1000 in parallel connection



PSB-104 Cable for 2 units of PSB-1000 in series connection

