

# **PSB-1000 Series**

Programmable Multi-Range D.C. Power Supply

## **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; C.V/C.C Priority; Sequence Function for Sequential D.C Waveform Output
- 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-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. The models and operating area of the entire series are as the following chart :

Model Name	Output Voltage	Output Current	Output Power
PSB-1400L	40V	40A	400W
PSB-1400M	160V	10A	400W
PSB-1800L	40V	80A	800W
PSB-1800M	160V	20A	800W





#### PANEL INTRODUCTION



Parallel Connection	1 UNIT	2 UNITS	3 UNITS	4 UNITS
PSB-1400L	40V/40A	40V/80A	40V/120A	40V/160A
PSB-1400M	160V/10A	160V/20A	160V/30A	160V/40A
PSB-1800L	40V/80A	40V/160A	40V/240A	40V/320A
PSB-1800M	160V/20A	160V/40A	160V/60A	160V/80A
Series Connection	11	JNIT	2 U	NITS
		JNIT 7/40A		NITS /40A
Connection	40V		80V	
Connection PSB-1400L	40V 160	//40A	80V) 320V	/40A

To augment output power so as to meet customers' large voltage and large current requirements, the PSB-1000 series, via placing two same model units in series connection, will be able to produce twofold rated voltage output, and through connecting four same model units in parallel, the PSB-1000 series can produce fourfold rated current output. The maximum voltage output of 320V can be achieved via placing the PSB-1000 series in series connection, and the maximum current of 320A and the maximum power of 3200W can be obtained through parallel connection.



Enable OCP Control

The On/Off of the OCP protection function can be selected from the master display screen and the OCP activation time can delay 0.1~2.0 seconds. This function can protect customers' DUTs from over current to avoid unexpected operations which lead to DUT damage caused by over current.



Time Output Off Delay

Off Delays time

Outhour

P58-10004

Power output and on/off facilitate flexible planning and setting with respect to time.

 $\star$  Set output on delays time to delay 0.00  $\sim$  100.00 seconds

Output disat

 $\star$  Set output off delays time to delay 0.00  $\sim$  100.00 seconds

Multiple power outputs by different time sequence can be realized via synchronizing multiple PSB-1000 series.

#### B. Power On Configuration



Power On Configuration Setting Screen

The PSB-1000 series provides different Power On Configurations for different users. Users can also set automatic execution procedures to be carried out as soon as power is turned on. After presetting Power On Configuration, each rebooting will have a short activation display to show present settings of Power On Configuration of the PSB-1000 series. The execution will be conducted by the power on mode.



Voltage Trigger allows users to set pulse signals for leading edge threshold Vt1 and trailing edge threshold Vt2. VOLT TRIG can be applied to provide output time for working voltage via BNC adapter. Users can determine positive or negative voltage trigger signals by Tref.

### I/V Control (Adjustable Slew Rate)



CV and CC priority can be set based upon customers' application requirements. The speed of voltage rise (V/s) or voltage fall (V/s), and the speed of current rise (A/s) or current fall (A/s) can be set respectively.

The PSB-1000 series provides customers with the following four modes to meet their requirements.

 $\ensuremath{\mathsf{CVHS}}$  - Voltage with maximum speed Slew Rate

CCHS - Current with maximum speed Slew Rate

CVLS - Users set voltage Slew Rate

CCLS - Users set current Slew Rate

Model Name		PSB-1400L	PSB-1400M	PSB-1800L	PSB-1800M
OUTPUT RATING		T 3D-1400L	130-140010	F3D-TOVVL	
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)					1
oad regulation (mA)		45	15	85	25
ine regulation (mA)		45	15	85	25
RIPPLE & NOISE (Noise Bandwi	dth 20MHz ; Ripple Ba				
CV p-p CV rms		60 7	60 12	80	80 15
C rms		80	20	160	40
PROGRAMMING ACCURACY					
/oltage (mV)	0.1% +	10	50	10	50
Current (mA)	0.1% +	20	10	40	20
A SUREMENT ACCURACY					I
oltage (mV)	0.1% +	10	50	10	50
urrent (mA)	0.1% +	20	10	40	20
ESPONSE TIME					
aise Time (ms)		50	100	50	100
all Time(Full load) (ms)		50	150	50	150
all Time(No load) (ms)		500	1200	500	1200
oad Transient Recover Time(ms) .oad change from 50 to 100%)		1	1	1	1
ROGRAMMING RESOLUTION	(By PC Remote Contro	) Mode)			I
oltage (mV)	(-) · • Kennole contro	1	3	1	3
Current (mA)		1	1	2	1
<b>MEASUREMENT RESOLUTION</b>	(By PC Remote Contro	l Mode)			
oltage (mV)		1	3	1	3
Current (mA)		1	1	2	1
ERIES AND PARALLEL CAPABI	LITY				
Parallel Operation		Up to 4 units includi			
Series Operation	<u> </u>	Up to 2 units includi	ng the master unit		
PROTECTION FUNCTION					1
OVP (V)		4-44	5-176	4-44	5-176
DCP (A)		4-44 Turn the output off.	1-11 Turn the output off.	5-88 Turn the output off.	2-22 Turn the output off.
OHP FRONT PANEL DISPLAY ACCUR	ACY (4 Digits)	Turn the output on.	runn the output on.	runn the output on.	ium me output on.
12	0.1% +	20	100	20	100
/oltage (mV) Current (mA)	0.1% +	20	10	40	20
ENVIRONMENT CONDITION	011/01				
Operation Temp		0°C to 40°C			
Storage Temp		-25 °C to 70 °C			
Operating Humidity Storage Humidity		20% to 85% RH; No			
DTHER	<u> </u>	90% RH or less; No c	condensation		
Analog Control		Yes			
nterface		USB/LAN/GPIB(Opt	tion)		
Power Source			)Hz to 60Hz, single pha	ise	
		214(W)×124(H)×350			
		214(W)×124(H)×350 Approx. 5.2kg	Approx. 5.2kg	Approx. 6.8kg	Approx. 6.8kg
Veight		Approx. 5.2kg	Approx. 5.2kg Specificatio	Approx. 6.8kg ns subject to change withou	
Veight	N	Approx. 5.2kg	Approx. 5.2kg Specificatio IONAL ASSESSORIES	ns subject to change withou	ut notice. SB-1000GD1E
Veight DRDERING INFORMATIO PSB-1400L 40V/40A/400W Progra	ammable Multi-Range D.C	Approx. 5.2kg OPT PSW- PSW- PSW- PSW- PSW- PSW- PSW- PSW-	Approx. 5.2kg Specificatio IONAL ASSESSORIES -001 Analog remote control	ns subject to change withou	Rack-mount adapter(JIS)
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Weight ORDERING INFORMATIO PSB-1400L 40V/40A/400W Progra PSB-1400M 160V/10A/400W Progra PSB-1800L 40V/80A/800W Progra PSB-1800M 160V/20A/800W Progra CCCESSORIES CD ROM (User Manual, Programmin or PSE (Region dependent), Output te 25B-106 Basic accessory kit : M4 terminal screws and washers x 2, M8 terminal screws and washers x 2, M8 terminal accessory kit : M4 terminal screws and washers x 2, M8 terminal SD ROM (User Manual, Programmin poly and the strength of the strength o	ammable Multi-Range D.C ammable Multi-Range D.C ammabl	Approx. 5.2kg Approx. 5.2kg OPT PSW- PSB- P	Approx. 5.2kg Specificatio IONAL ASSESSORIES OO1 Analog remote control OO2 Simple IDC tool OO3 Contact removal tool IO1 Cable for 2 units of PS IO2 Cable for 2 units of PS IO3 Cable for 4 units of PS IO3 Cable for 2 units of PS IO4 Cable for 2 units of PS IO5 GPIB card IO6 basic accessory kit: M4 terminal screws and 1 analog control protection P. 099-0819	ns subject to change withou connector kit <b>CRA-418-J</b> <b>GRA-418-E</b> <b>GTL-123</b> iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in series mod washers x 2, M8 terminal bolts, dummy x 1, analog control loc	Rack-mount adapter (JIS) Rack-mount adapter (JIS) Rack-mount adapter (EIA) Test leads:1x red,1x black ode connection ode connection le connection the connection the connection the connection the connection the connection
Weight ORDERING INFORMATIO PSB-1400L 40V/40A/400W Progra PSB-1400M 160V/10A/400W Progra PSB-1800L 40V/80A/800W Progra PSB-1800M 160V/20A/800W Progra PSB-1800M 160V/20A/800W Progra CCESSORIES CD ROM (User Manual, Programmin or PSE (Region dependent), Output te PSB-106 Basic accessory kit : M4 terminal screws and washers x 2, M8 te inalog control protection dummy x 1, anale what terminal screws and washers x 2, M8 te inalog control protection dummy x 1, anale what terminal screws and washers x 2, M8 te SB-106 Basic accessory kit : M4 terminal screws and washers x 2, M8 te inalog control protection dummy x 1, anale what terminal screws and washers x 2, M8 te SB-22268-0389 F +886-2-2268-0639 na Subsidiary DOD WILL INSTRUMENT (SUZH	ammable Multi-Range D.C ammable Multi-Range D.C ammabl	Approx. 5.2kg Approx. 5.2kg OPT PSW- PSB- P	Approx. 5.2kg Specificatio IONAL ASSESSORIES OO1 Analog remote control OO2 Simple IDC tool OO3 Contact removal tool IO1 Cable for 2 units of PS IO2 Cable for 2 units of PS IO3 Cable for 4 units of PS IO3 Cable for 2 units of PS IO4 Cable for 2 units of PS IO5 GPIB card IO6 basic accessory kit: M4 terminal screws and 1 analog control protection P. 099-0819	ns subject to change withou connector kit <b>CRA-418-J</b> <b>GRA-418-E</b> <b>GTL-123</b> iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in series mod washers x 2, M8 terminal bolts, dummy x 1, analog control loc	It notice. SB-1000GD1E Rack-mount adapter(JIS) Rack-mount adapter(EIA) Test leads:1x red,1x black ode connection ode connection le connection the connection le connection
Veight DRDERING INFORMATIO PSB-1400L 40V/40A/400W Progra PSB-1400M 160V/10A/400W Progra PSB-1800L 40V/80A/800W Progra PSB-1800M 160V/20A/800W Progra PSB-1800M 160V/20A/800W Progra PSB-1800M 160V/20A/800W Progra PSB-106 Basic accessory kit : CCESSORIES DROM (User Manual, Programmin r PSE(Region dependent), Output te PSB-106 Basic accessory kit : At terminal screws and washers x 2, M8 te nalog control protection dummy x 1, analo bal Headquarters DOD WILL INSTRUMENT (CO B86-2-2268-0389 F +886-2-2268-0639 na Subsidiary POD WILL INSTRUMENT (SUZH 36-512-6661-7177 F +86-512-6661-7277 aysia Subsidiary POD WILL INSTRUMENT (M) SD	ammable Multi-Range D.C ammable Multi-Range D.C ammabl	Approx. 5.2kg Approx. 5.2kg OPT PSW- PSB- P	Approx. 5.2kg Specificatio IONAL ASSESSORIES OO1 Analog remote control OO2 Simple IDC tool OO3 Contact removal tool IO1 Cable for 2 units of PS IO2 Cable for 2 units of PS IO3 Cable for 4 units of PS IO3 Cable for 2 units of PS IO4 Cable for 2 units of PS IO5 GPIB card IO6 basic accessory kit: M4 terminal screws and 1 analog control protection P. 099-0819	ns subject to change withou connector kit <b>CRA-418-J</b> <b>GRA-418-E</b> <b>GTL-123</b> iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in series mod washers x 2, M8 terminal bolts, dummy x 1, analog control loc	It notice. SB-1000GD1F Rack-mount adapter(JIS) Rack-mount adapter(EIA) Test leads:1x red,1x black ode connection ode connection le connection the connection le connection
Weight DRDERING INFORMATIO PSB-1400L 40V/40A/400W Progra PSB-1400M 160V/10A/400W Progra PSB-1800L 40V/80A/800W Progra PSB-1800L 40V/80A/800W Progra PSB-1800M 160V/20A/800W Progra CCESSORIES CD ROM (User Manual, Programmin or PSE(Region dependent), Output te PSB-106 Basic accessory kit : 44 terminal screws and washers x 2, M8 terminal proper Steppendent (Steppendent), Output terminal PSB-106 Basic accessory kit : 44 terminal screws and washers x 2, M8 terminal proper Steppendent (Steppendent), Output terminal PSB-106 Basic accessory kit : 44 terminal screws and washers x 2, M8 terminal proper Steppendent (Steppendent), Output terminal PSB-106 Basic accessory kit : 44 terminal screws and washers x 2, M8 terminal proper Steppendent (Steppendent), Output terminal Steppendent (Steppende	ammable Multi-Range D.C ammable Multi-Range D.C ammabl	Approx. 5.2kg Approx. 5.2kg OPT PSW- Power Supply Power Supply A for UL/CSA B cable, rs x 2, bar x 1 J.S.A. Subsidiary NSTEK AMERICA COR F +1-909-399-3535 F +1-909-359 apan Subsidiary FEXIO TECHNOLOGY (C F +81-45-620-2305 F +81-45-53)	Approx. 5.2kg Specificatio IONAL ASSESSORIES 001 Analog remote control 002 Simple IDC tool 003 Contact removal tool 101 Cable for 2 units of PS 102 Cable for 2 units of PS 103 Cable for 2 units of PS 104 Cable for 2 units of PS 105 GPIB card 106 basic accessory kit: M4 terminal screws and analog control protection P. 99-0819 CORPORATION. 34-7181	ns subject to change withou connector kit <b>CRA-418-J</b> <b>GRA-418-E</b> <b>GTL-123</b> iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in series mod washers x 2, M8 terminal bolts, dummy x 1, analog control loc	Rack-mount adapter (JIS) Rack-mount adapter (JIS) Rack-mount adapter (EIA) Test leads:1x red,1x black ode connection ode connection le connection the connection the connection the connection the connection the connection
Veight DRDERING INFORMATIO PSB-1400L 40V/40A/400W Progra PSB-1400M 160V/10A/400W Progra PSB-1800L 40V/80A/800W Progra PSB-1800M 160V/20A/800W Progra SB-1800M 160V/20A/800W Progra CCESSORIES D ROM (User Manual, Programmin r PSE(Region dependent), Output te SB-106 Basic accessory kit : 14 terminal screws and washers x 2, M8 te nalog control protection dummy x 1, analoc bal Headquarters DOD WILL INSTRUMENT CCC 386-2-2268-0389 F +886-2-2268-0639 na Subsidiary OD WILL INSTRUMENT (SUZH 86-512-6661-7177 F +86-512-6661-7277 aysia Subsidiary OD WILL INSTRUMENT (M) SD	ammable Multi-Range D.C ammable Multi-Range D.C ammabl	Approx. 5.2kg Approx. 5.2kg OPT Power Supply Power Supply Power Supply A for UL/CSA B cable, rrs x 2, bar x 1 J.S.A. Subsidiary INSTEK AMERICA COR F +1-909-399-3535 F +1-909-35 apan Subsidiary F +81-45-620-2305 F +81-45-55 Korea Subsidiary	Approx. 5.2kg Specificatio IONAL ASSESSORIES OOI Analog remote control OO2 Simple IDC tool OO3 Contact removal tool IO1 Cable for 2 units of PS IO2 Cable for 4 units of PS IO3 Cable for 4 units of PS IO4 Cable for 2 units of PS IO5 GPIB card IO6 basic accessory kit: M4 terminal screws and analog control protection P. 199-0819 CORPORATION. 34-7181	ns subject to change withou connector kit <b>CRA-418-J</b> <b>GRA-418-E</b> <b>GTL-123</b> iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in parallel mo iB-1000 units in series mod washers x 2, M8 terminal bolts, dummy x 1, analog control loc	It notice. SB-1000GD1E Rack-mount adapter(JIS) Rack-mount adapter(EIA) Test leads:1x red,1x black ode connection ode connection le connection the connection le connection