

PSB-2000 Series

Multi-Range DC Power Supply

FEATURES

- Output Voltage Rating : 80V/800V
- Output Power Rating : 400W ~ 800W
- Constant Power Output for Multi-Range (V & I) Operation
- Series and Parallel Operation (2 Units in Series or 4 Units in Parallel Maximum)
- 90 Degree Angle Rotatable Control Panel
- Sequence Function Edited by PC Will be Controlled Through Power Supply Optional Interface
- Standard Interface : RS-232C/USB/Analog Control Interface
- Optional Interface : GPIB
- Preset Function (3 Points)
- LabVIEW Driver



Fulfill Multi-Range and High-Voltage Output Simulation Needs

The PSB-2000 Series is a high power density, programmable and multi-range output DC power supply. There are six models in the series including one power booster unit. The PSB-2000 Series has the output voltage of 0~80V and 0~800V, and the output power ranges of 0~400W and 0~800W. The multi-range output functionality facilitates flexible collocations of higher voltage and larger current under the rated power range. Both series and parallel connections can be applied to the PSB-2000 Series to fulfill the requirements of higher.

The PSB-2000 Series provides three sets of preset function keys to memorize regularly used settings of voltage, current and power that users can recall rapidly. The sequence function, via RS232C, USB interface or optional GPIB interface, can connect with the computer to produce output power defined by sequence of a series of set voltage and current steps that are defined by the computer. This function is often used to establish a standard test procedure for the verification of the influence on DUTs done by the swiftly changing operating.

The PSB-2000 Series protects over voltage and over current. The power supply output function will be shut down to protect DUTs while the protection mechanism is triggered to function. When conducting battery charging operation, the Hi- Ω mode of the PSB-2000 Series will prevent reverse current from damaging power supply.

The PSB-2000 Series provides analog control interfaces on the rear panel to control PSB-2000 Series output via the external voltage or to externally monitor voltage and current output status of power supply. The PSB-2000 Series panel can be rotated 90 degree angle suitable for vertical or horizontal position to accommodate the ideal space utilization.

MULTI-RANGE OUTPUT OPERATION





The operation area of a Conventional Power Supply

Compared with the maximum power output of the conventional power supply that is calculated by the maximum output voltage multiplies by the maximum output current, the PSB-2000 series, defying the formula, has a unique characteristic of multi-range output (voltage and current). This distinguishing feature, under the same maximum power output range, can output a higher voltage with a smaller current and vice versa. For instance, for a conventional power supply with a maximum power output of 360W, the maximum voltage and current outputs are likely to be



10V and 36A respectively. Comparatively, PSB-2400L, with the maximum power output of 400W, provides voltage and current output ranges of 0~80V and 0~40A. The maximum current of 5A will be provided when the voltage reaches 80V and the maximum voltage of 10V for the maximum current of 40A. PSB-2400L, breaking the limitation of Pmax=Vmax x Imax,, broadens voltage and current application ranges. The following diagrams illustrate the voltage and current comparison between the multi-range output power supply and the conventional power supply.

B. PRODUCTS IN THE SERIES

There are six models in the PSB-2000 Series. Model type, output voltage, output current and output power are as follows :

MODEL	PSB-2400L	PSB-2800L	PSB-2400L2	PSB-2400H	PSB-2800H	PSB-2800LS*
Channel Number	1	1	2	1	1	NA
Voltage Rating**	0 ~ 80V	0 ~ 80V	0 ~ 80V x 2CH	0 ~ 800V	0~800V	80V
Current Rating***	0 ~ 40A	0~80A	0 ~ 40A x 2CH	0 ~ 3A	0 ~ 6A	80A
Output Power (Max.)	400W	800W	800W	400W	800W	800W

* PSB-2800LS, a booster unit acting as slave to extend current, can not operate alone. It must operate with PSB-2800L master.

** The maximum current under the highest output voltage is power/voltage. For instance, when PSB-2400L outputs 80V the maximum current is 400W/80V = 5A.

*** Same as above. When PSB2400L outputs 40A the highest voltage is 400W/40A = 10V .

. SERIES AND PARALLEL CONNECTIONS



Series Connection



Hence, the PSB-2000 Series, with its multi-range output function and the power extension capability of series and parallel connections, is the high power density and high performance to cost ratio DC power supply, which provides a wider range of power applications for any limited equipment space. The PSB-2000 Series is an ideal selection for testing DC power supply module, automobile lithium and lithium iron battery and electronic parts.

Parallel Connection

D. PRESET FUNCTION



The PSB-2000 Series provides three sets of parameter preset function keys on the front panel and each parameter preset memory includes output voltage, output current and output power. Users can speedily recall frequently used settings through operating the front panel preset keys to store everyday settings.

SEQUENCE FUNCTION



Example for the sequence operation

When applying sequence function, the computer must first edit a series of steps defined by different voltage, current and duration, which, in CSV format, will be sent to PSB-2000 memory via RS-232C, USB interface or GPIB interface (optional) to periodically produce a series of steps defined by different voltage, current and

duration. The minimum time for each sequence is set to one second and the maximum number of step is 100. This function is to test the impact of DUTs done by the rapidly changing power supply. The reliability test of electronics products toward changing power supply is one of the very important verification items.

E. OVP AND OCP FUNCTIONS

Model Number	OVP Setting Range	Model Number	OVP Setting Range	
PSB-2400L	1.0V to 84.0V	PSB-2400L	1.04 1. 12.04	
PSB-2800L		PSB-2400L2	1.0A to 42.0A	
PSB-2400L2		PSB-2800L	1.0A to 84.0A	
PSB-2800LS		PSB-2400H	0.1A to 3.15A	
PSB-2400H		P3D-2400H	0.1A to 5.15A	
PSB-2800H		PSB-2800H	0.1A to 6.30A	

When the voltage and current outputs exceed the preset conditions, the PSB-2000 Series will shut down the output function to prevent DUTs from damaging. The OVP and OCP protection level can be set to $10\% \sim 110\%$ of the rated voltage or current and the preset condition is 110% of the rated voltage and current.

G. TRACKING FUNCTION



The tracking function is available on the dual output model (PSB-2400L2) only. It allows the setting of both channels to be changed at the same time. When the value of the one channel is changed, and the other channel will automatically change its value accordingly if the tracking function is active (ON).

H. 90 DEGREE ANGLE ROTATABLE CONTROL PANEL



Taking working space utilization into consideration, PSB-2000 can be placed vertically or horizontally by its unique design of 90 degree angle rotatable control panel for users' ease-of-use.

. DELAY FUNCTION



The delay function is available on the dual channel model (PSB-2400L2) only. It adds a rise and fall delay time to the output of channel 2 for a specified amount of time (in seconds) from a reference point (output of channel 1). The rise delay time refers to the delay time for turning the output on. The fall delay time refers to the delay time for turning the output off.

EXTERNAL CONTROL AND ANALOG MONITORING FUNCTION



External Voltage Monitor of the Output



The rear panel of the PSB-2000 Series provides 26-Pin analog control connector and users can control output voltage and current value via external voltage or resistance. Furthermore, power supply's output on and off or AC input shut down can also be executed through the external control connector. The designated pin of the port can be measured to monitor output voltage and current. The following diagrams illustrate several typical external control application connections. Please refer to product user manual for more or detailed connection methods.

External Voltage Control of the output

PANEL INTRODUCTION

PSB-2400L2



PSB-2400L/PSB-2800L



PSB-2400H/PSB-2800H



PSB-2800LS





USB

RS-232

Analog Control

GPIB

Front/Rear Output

Local Bus LabVIEW Driver







- 1. Front grill
- 2. Setting Display & Operation Keys
- 3. Output Terminals (Front Panel)
- 4. Output Terminal (Rear Panel)
- 5. Signal Input & Output Connector
- 6. External Control Connector (Analog Control Connector)
- 7. AC Input
- 8. Interface Card (Local Bus / RS-232 / USB)

	PSB-2400L	PSB-2800L	PSB-2400L2	2 PSB-2400H	PSB-2800H	PSB-2800L	
OUTPUT RATING Voltage	0 ~ 80V	0 ~ 80V	0 ~ 80V x 2Cl	H 0~800V	0 ~ 800V	80V	
Current	0 ~ 40A	0 ~ 80A	0 ~ 40A x 2CI	H 0~3A	0 ~ 6A	80A	
Power REGULATION (CV)	400W	800W	800W	400W	800W	800W	
Load	0.01% ± 3mV of rated voltage 0.01% ± 30mV of rated voltage						
Line	0.01% ± 2mV of rated vo	ltage		0.01% ± 20mV of rated voltage			
REGULATION (CC)	0.02% ± 3mA of rated cu	rrent		0.05% ± 15mA of rated curren	<u>t</u>	N/A	
Line	$0.01\% \pm 2mA$ of rated cu	rrent		$0.05\% \pm 10$ mA of rated curren		14/7	
RIPPLE & NOISE (Noise Ba					200 1/2 1 1 1 1		
СV р-р	90mV	150mV	90mV	250mV (only output voltage measures more than 1% of the	300mV(only output voltage measures more than 1% of the	N/A	
<u></u>	4.34	6.14		rated voltage)	rated voltage)		
CV rms	4mV	6mV	4mV	20mV(when current measures< 35mV(when current measures>	2A) 25mV(when current measures<2A) 2A) 40mV(when current measures>2A)		
CC rms	30mA	60mA	30mA	15mA	20mA		
PROGRAMMING ACCURA	0.1% setting±2digits			0.1% setting±2digits		N/A	
Current	0.2%setting±2digits			0.2% setting±2digits		1.177	
Power	± 10W ±10W (only output voltage measures more than 1% of rated voltage)						
READ BACK ACCURACY Voltage	0.2% reading±2digits			0.2% reading±2digits		N/A	
Current	0.2% reading±2digits			0.3% reading±2digits		11// 1	
Power	0.5% reading±5digits			0.5% reading±Vout x 40mA			
RESPONSE TIME	FOrme			200			
Raise Time(Full load/No load) Fall Time(Full load)	50ms 100ms			200ms 500ms		N/A	
Fall Time (No load)	500ms			1000ms			
Load Transient Recover Time (Load change from 50~100%)	lms						
PROGRAMMING RESOLUT	ΓΙΟΝ						
Voltage	10mV			100mV		N/A	
Current Power	10mA 10W			10mA 10W			
MEASUREMENT RESOLUT				IUW			
Voltage	10mV			100mV		N/A	
Current Power	10mA 10W			10mA 10W			
SERIES AND PARALLEL CA	PABILITY					1	
Channel Number Series Operation	1 Up to 2 Units	1 Up to 2 Units	2 N/A	1 N/A	1 N/A	E., DCD 2000	
Parallel Operation	Up to 4 Units	Up to 4 Units	N/A	Up to 2 Units	Up to 2 Units	For PSB-2800 Only	
Parallel with booster PSB-2800LS PPROTECTION FUNCTION	N/A	Up to 3 Units	N/A	N/A	N/A		
OVP (Fixed)	Output off when 110% o	frated voltage		Output off when output voltage	e exceeds 110% of rated voltage	N/A	
OVP (Variable)	Output off when operating	g; Setting range:1V	~84V with front pa	nel Presettable in range from 10V	~ 840V om front panel		
OCP (Fixed) OCP (Variable)	Output off when 110% o Output off when operating;S		(84A for model num		e exceed 110% of rated current		
OHP	Output off above heat sir				ink temperature over setting value		
ENVIRONMENT CONDITION						1	
Operation Temp Storage Temp	0°C ~ 40°C -20°C ~ 70°C					N/A	
Operating Humidity	30% ~ 80% RH (no dew						
Storage Humidity	30% ~ 80% RH (no dew	condensation)					
OTHER Inrush Current	35A Max	70A Max	70A Mmax	35A Max	70A Max	70A Max	
Power Consumption/Factor	560VA/0.99	1120VA/0.99	1120VA/0.99		1120VA/0.99	1120VA/0.99	
Cooling Method	Forced air-cooling with fa						
Power Source	100VAC ~ 240VAC, 50/60F	Iz, Single phase					
Interface (Standard) Interface (Optional)	RS-232C/USB GPIB						
Interface (Standard) Interface (Optional) Analog Control							
Interface (Standard) Interface (Optional) Analog Control	GPIB Yes	0)mm					
Interface (Standard)	GPIB))mm Approx.7kg	Approx.7kg	Approx. 5kg	Approx. 6kg	Approx. 7kg	
Interface (Standard) Interface (Optional) Analog Control	GPIB Yes 210(W) x 124(H) x 290(D	í .	Approx.7kg	11 0			
Interface (Standard) Interface (Optional) Analog Control	GPIB Yes 210(W) x 124(H) x 290(C Approx.5kg	í .		11 0			
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Interface (Standard) Interface (Optional) Analog Control DIMENSIONS & WEIGHT ORDERING INFOR PSB-2400L 080V/0 PSB-2400L 080V/0 PSB-2400L2 080V x PSB-2400H 0800V/ PSB-2800H 0800V/ PSB-2800LS 800W SI: ACCESSORIES User Manual (CD) x 1, AC F	GPIB Yes 210(W) x 124(H) x 290(D Approx.5kg CMATION -~40A/400W Multi-Range -~80A/800W Multi-Range 2/0~40A x 2/800W Multi- 0~3A/400W Multi-Range ave (Booster) Unit For Cu Power Cord x 1, External Co s on rear panel, Protection ups for output terminals on	Approx.7kg DC Power Supp DC Power Supp Range DC Powe DC Power Supp DC Power Supp urrent Extension Introl Connector (covers for output the front panel, C	ly ly r Supply ly Only 26pin), terminals 5ND Cable,	Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specif	r Horizontal Installation. int Kit, Horizontal bus bar x 2 , PSB-0 r Vertical Installation. int Kit, Verical bus bar x 2, PSB-005 x I Cable Cable ng Plates, (M3x6)screws x 4 ; (M3x8): Only) GRJ-1101 Local Bus	05 x1) 1) screw x 2	
Interface (Standard) Interface (Optional) Analog Control DIMENSIONS & WEIGHT ORDERING INFOR PSB-2400L 0-80V/0 PSB-2400L 0-80V/0 PSB-2400L 0-80V/0 PSB-2400L 0-80V/0 PSB-2400H 0-800V/ PSB-2800H 0-800V/ PSB-2800LS 800W SI ACCESSORIES User Manual (CD) x 1, AC F Screws for output terminals on rear panel, Protection ca USB Cable (For Model Nun PSB-2800H) Local Bus (For	GPIB Yes 210(W) x 124(H) x 290(D Approx.5kg CMATION -~40A/400W Multi-Range -~80A/800W Multi-Range 2/0~40A x 2/800W Multi- 0~3A/400W Multi-Range 0~6A/800W Multi-Range ave (Booster) Unit For Ct Power Cord x 1, External Co son rear panel, Protection ups for output terminals on ober : PSB-2400L; PSB-2800	Approx.7kg DC Power Supp DC Power Supp Range DC Powe DC Power Supp DC Power Supp urrent Extension Introl Connector (covers for output the front panel, C DL; PSB-2400L2; P	ly ly r Supply ly Only 26pin), terminals SID Cable, SID Cable, SB-2400H; SB-2400L2;	Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specif	r Horizontal Installation. int Kit, Horizontal bus bar x 2 , PSB-0 r Vertical Installation. int Kit, Verical bus bar x 2, PSB-005 x I Cable Cable ng Plates, (M3x6)screws x 4 ; (M3x8): Only) GRJ-1101 Local Bus	05 x1) 1) screw x 2	
Interface (Standard) Interface (Optional) Analog Control DIMENSIONS & WEIGHT ORDERING INFOR PSB-2400L 080V/0 PSB-2800L 080V/0 PSB-2800L 080V/2 PSB-2400L2 080V/2 PSB-2400H 0800V/ PSB-2800H 0800V/ PSB-2800LS 800W SI ACCESSORIES User Manual (CD) x 1, ACF Screws for output terminals on rear panel, Protection ca USB Cable (For Model Nun	GPIB Yes 210(W) x 124(H) x 290(D Approx.5kg CMATION -~40A/400W Multi-Range -~80A/800W Multi-Range 2/0~40A x 2/800W Multi- 0~3A/400W Multi-Range 0~6A/800W Multi-Range ave (Booster) Unit For Ct Power Cord x 1, External Co son rear panel, Protection ups for output terminals on ober : PSB-2400L; PSB-2800	Approx.7kg DC Power Supp DC Power Supp Range DC Powe DC Power Supp DC Power Supp urrent Extension Introl Connector (covers for output the front panel, C DL; PSB-2400L2; P	ly ly r Supply ly Only 26pin), terminals SID Cable, SID Cable, SB-2400H; SB-2400L2;	Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specif	r Horizontal Installation. int Kit, Horizontal bus bar x 2 , PSB-0 r Vertical Installation. int Kit, Verical bus bar x 2, PSB-005 x I Cable Cable ng Plates, (M3x6)screws x 4 ; (M3x8): Only) GRJ-1101 Local Bus	05 x1) 1) screw x 2	

GOOD WILL INSTRUMENT CO., LTD. No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan T +886-2-2268-0389 F +886-2-2268-0639 E-mail: marketing@goodwill.com.tw

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