

## PSB-2000 Specifications

The specifications apply when the PSB-2000 is powered on for at least 30 minutes under +20°C~+30°C.

Model Number	PSB-2400L	PSB-2800L	PSB-2400L2	PSB-2400H	PSB-2800H	PSB-2800LS
<b>Output Rating</b>						
Channel Number	1	1	2	1	1	N/A
Voltage	0~80V	0~80V	0~80V x2	0~800V	0~800V	80V
Current	0~40A	0~80A	0~40A x2	0~3A	0~6A	80A
Output Power (Max)	400W	800W	800W	400W	800W	800W
<b>Regulation (CV)</b>						
Load	0.01% ± 3mV of rating voltage			0.01% ± 30mV of rating voltage		N/A
Line	0.01% ± 2mV of rating voltage			0.01% ± 20mV of rating voltage		N/A
<b>Regulation (CC)</b>						
Load	0.02% ± 3mV of rating voltage			0.05% ± 15mV of rating voltage		N/A
Line	0.01% ± 2mV of rating voltage			0.05% ± 10mV of rating voltage		N/A
<b>Ripple &amp; Noise (Noise Bandwidth 20MHz, Ripple Bandwidth = 1MHz)</b>						
CV p-p	90mV	150mV	90mV	250mV (Only output voltage measures more than 1% of rated voltage)	300mV (Only output voltage measures more than 1% of rated voltage)	N/A
CV rms	4mV	6mV	4mV	20mV (When current measures < 2 A) 35mV (When current measures > 2 A)	25mV (When current measures < 2 A) 40mV (When current measures > 2 A)	N/A
CC rms	30mA	60mA	30mA	15mA	20mA	N/A
<b>Programming Accuracy</b>						
Voltage	0.1% setting ± 2digit					N/A
Current	0.2% setting ± 2digit					N/A
Power	±10W			±10W (Only output voltage measures more than 1% of rated voltage)		N/A

Readback Accuracy					
Voltage	0.2% reading $\pm$ 2digit		0.2% reading $\pm$ 2digit		N/A
Current	0.3% reading $\pm$ 2digit		0.3% reading $\pm$ 2digit		N/A
Power	0.5% reading $\pm$ 2digit		0.5% reading $\pm$ Vout x40Ma		N/A
Response Time					
Raise Time (Full Load/No Load)	50ms		200ms		N/A
Fall Time (Full Load)	100ms		500ms		N/A
Fall Time (No Load)	500ms		1000ms		N/A
Load Transient Recover Time (Load change from 50 to 100%)	1ms		7ms		N/A
Programming Resolution					
Voltage	10mV		100mV		N/A
Current	10mA		10mA		N/A
Power	10W		10W		N/A
Measurement Resolution					
Voltage	10mV		100mV		N/A
Current	10mA		10mA		N/A
Power	10W		10W		N/A
Series and Parallel Capability (All number of units includes Master unit)					
Series Operation	Up to 2 Units		N/A	N/A	For PSB-2800L only
Parallel Operation	Up to 4 Units	N/A	Up to 2 Units		
Parallel Operation with PSB-2800LS (Booster Unit)	N/A	Up to 4 Units	N/A	N/A	
Protective Function					
OVP (Fixed)	Output off with 110% of rating output voltage		Output off when output voltage exceed 110% of rated voltage		N/A
OVP (Variable)	Output off when operating Setting range: 1V ~ 84V with front panel		Pre-settable in range from 10V to 840V on front panel		
OCP (Fixed)	Output off with 110% of rating output current		Output off when output voltage exceed 110% of rated current		
OCP (Variable)	Output off when operating Setting range: 1A ~ 42A (84A for PSB-2800L)		Pre-settable in range from 0.1A to 6.30A on front panel		
OHP	Output off above heat sink setting		Output off at the internal		

	temperature			heat sink temperature		
<b>Environment Condition</b>						
<b>Operation Temp</b>	0°C to +40°C					N/A
<b>Storage Temp</b>	-20°C to +70°C					
<b>Operating Humidity</b>	30% RH to 80% RH (No dew condensation)					
<b>Storage Humidity</b>	30% RH to 80% RH (No dew condensation)					
<b>Other</b>						
<b>Cooling method</b>	Forced ait-cooling with fan moter					
<b>Power consumption / factor</b>	560VA / 0.99	1120VA / 0.99	1120VA / 0.99	560VA / 0.99	1120VA / 0.99	1120VA / 0.99
<b>Inrush Current</b>	35A Max	70A Max	70A Max	35A Max	70A Max	70A Max
<b>Power Source</b>	100VAC ~ 240VAC, 50/60Hz, Single phase					
<b>Interface (Standard)</b>	RS-232C/USB					N/A
<b>Interface (Optional)</b>	GPIB					N/A
<b>Analog Control</b>	Yes					N/A
<b>Dimension</b>	210(W) x 124(H) x 290(D) mm					
<b>Weight</b>	Approx. 5kg	Approx. 7kg	Approx. 7kg	Approx. 5kg	Approx. 6kg	Approx. 7kg