





The PSU-Series is a single output programmable switching DC Power Supply covering a power range up to 1520W. This series of products include five models with the combination from 6V to 60V rated voltages. As the PSU-Series can be connected in series for maximum 2 units or in parallel for maximum 4 units, the capability of connecting multiple PSU-Series units for higher voltage or higher current output provides a broad coverage of applications.

The C.V/C.C priority selection of the PSU-Series is a very useful feature for DUT protection. The conventional power supply normally operates under C.V mode when the power supply output is turned on. This could bring a high inrush current to the capacitive load or current-intensive load at the power output on stage. Though the current becomes stable after the C.C mode is activated, the current spike occurred

at the C.V and C.C crossover point may possibly damage the DUT. At the power output on stage, the PSU-Series is able to run under C.C priority to limit the current spike occurred at the threshold voltage and therefore protects DUT from the inrush current damage.

The OVP and OCP protections can prevent the DUT damage. Both OVP and OCP levels can be selected the range of 10% to 110%, with the default level set at 110%, of the rated voltage/current of the power supply. The PSU-Series provides USB Host/Device, LAN, RS-232 with RS-485and Analog Control interfaces as standard. The LabView driver and the data Logging PC software are available at the rear panel for external control of the power On/Off and the external monitoring of power output voltage and current.

Series Operation

Model	Single Unit	Two Units	
PSU 6-200	6V / 200A	12V / 200A	
PSU 12.5-120	12.5V / 120A	25V / 140A	
PSU 20-76	20V / 76A	40V / 76A	
PSU 40-38	40V / 38 A	80V / 38A	
PSU 60-25	60V / 25A	120V / 25A	

Parallel Operation

Model	Single Unit	Two Units	Three Units	Four Units
PSU 6-200	6V / 200A	6V / 400A	6V / 600A	6V / 800A
PSU 12.5-120	12.5V / 120A	12.5V / 240A	12.5V / 360A	12.5V / 480A
PSU 20-76	20V / 76A	20V / 152A	20V / 228A	20V / 304A
PSU 40-38	40V / 38 A	40V / 76A	40V / 114A	40V / 152A
PSU 60-25	60V / 25A	60V / 50A	60V / 75A	60V / 100A

PSU-Series

FEATURES

- Voltage Rating: 6V/12.5V/20V/40V/60V
- Output Power Rating: 1200W ~ 1520W
- C.V/C.C Priority; Particularly Suitable for the Battery and LED Industry
- Adjustable Slew Rate
- Series and Parallel Operation (2 Units in Series/4 Units in Parallel Maximum)
- High Efficiency and High Power Density
- 19" Rack Mount Size Design
- Standard Interface: LAN, RS-232 & RS485, USB (Device/Host), Analog Control Interface
- Optional Interface: GPIB/Analog Control Interface (Isolated Voltage Control)/Analog Control Interface (Isolated Current Control)



Front



Rear Panel

APPLICATIONS

- Laboratories and Educational Facilities
- Product Testing and Quality Assurance
- Service Operation and Post-Sales support
- Product Development and Debugging



SPECIFICATIONS							
Model	PSU 6-200	PSU 12.5-120	PSU 20-76	PSU 40-38	PSU 60-25		
OUTPUT RATINGS							
/oltage	0 ~ 6V	0 ~ 12.5V	0 ~ 20V	0 ~ 40V	0 ~ 60V		
Current	0 ~ 200A	0 ~ 120A	0 ~ 76A	0 ~ 38A	0 ~ 25A		
Power	1200W	1500W	1520W	1520W	1500W		
OUTPUT RIPPLE AND NOISE							
CV p-p (0~20MHz)	60mV	60mV	60mV	60mV	60mV		
V rms (5Hz~1MHz)	8mV	8mV	8mV	8mV	8mV		
C rms (5Hz~1MHz)	400mA	240mA	152mA	95mA	75mA		
OAD REGULATION (change from 10%	to 90% of full load)		,				
oltage (0.01% of F.S. + 2mV)	2.6mV	3.25mV	4mV	6mV	8mV		
Current (0.02% of F.S. + 2mA)	45mA	29mA	20.2mA	12.6mA	10mA		
INE REGULATION (change from 85 to 13		AC)	I				
oltage (0.01% of F.S. + 2mV)	2.6mV	3.25mV	4mV	6mV	8mV		
urrent (0.02% of F.S. + 2mA)	22mA	14mA	9.6mA	5.8mA	4.5mA		
ROGRAMMING ACCURACY		98.00° N. W.		The state of the s	aggaran anama		
oltage 0.05% + offset (mV)	3mV	6.25mV	10mV	20mV	30mV		
current 0.2% + offset (mA)	200mA	120mA	76mA	38mA	25mA		
MEASUREMENT ACCURACY	1		T				
oltage 0.1% + offset (mV)	6mV	12.5mV	20mV	40mV	60mV		
Current 0.1% + offset (mA)	400mA	240mA	152mA	76mA	50mA		
OAD TRANSIENT RECOVERY TIM	1			_	_		
Time	1.5ms	1.5ms	lms	lms	lms		
OUTPUT RESPONSE TIME (Measured v	vith stepped 0-10V analog	programming source and	a resistive load.)	1			
Rise Time (No Load & Full Load)	80ms	80ms	80ms	80ms	80ms		
Fall Time (No Load)	500ms	700ms	800ms	1000ms	1100ms		
Fall Time (Full Load)	10ms	50ms	50ms	80ms	80ms		
PROGRAMMING/MEASUREMENT RI		91 W S S	NO. 544 1993		8 89		
/oltage	0.2mV	0.4mV	0.7mV	1.3mV	2mV		
Current	6mA	4mA	2.5mA	1.2mA	0.8mA		
TEMPERATURE COEFFICIENT (after a 3	the second secon						
/oltage	100PPM/°C after 30 m						
Current	100PPM/°C after 30 m	inutes warm up					
SERIES AND PARALLEL OPERATION							
Parallel Operation	Up to 4 units including	master unit					
Series Operation	Up to 2 units including	master unit					
ENVIRONMENTAL CONDITIONS	The second second		H a 1 6				
Environment	Indoor use, installation $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$	cateorgy Π (AC Input), p	ollution degree 2				
Operating Temperature Range Storage Temperature Range	-25°C ~70°C						
Operating Humidity Range	20% to 85% RH						
Storage Humidity Range		ive humidity (no condensa	ation)				
AC INPUT	- P 10 20,0 01 1000 10100		·····/				
Norminal Input	100Vac ~ 240Vac, 50Hz	z = 60Hz single phase					
nput Range	85VAc ~ 265Vac	our iz, single priase					
Power Factor (100Vac/200Vac)	0.99/0.98						
Maximum Input Current (100Vac/200Vac)	21A/11A						
nrush Current	≦50A						
Efficiency(100Vac/200Vac)	77%/79%	82%/85%	83%/86%	84%/88%	84%/88%		
DIMENSIONS & WEIGHT	and the state of t	10 10 10 10 10 10 10 10 10 10 10 10 10 1					
Analog Control (Non-Isolated)	YES						
PC Remote Interface (Standard)	USB (Device/Host)/RS	5-232 with RS-485/LAN					
PC Remote Interface (Optional)		nterface (Isolated Voltage (Control)/Analog Control In	terface (Isolated Current C	Control);		
- "	Note: Selection one of						
Cooling Fan	Forced air cooling by in	iternal fan					
Dimensions & Weight		32.8(D); Approach 8.7kg					

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1200W Programmable Switching DC Power Supply PSU 6-200 1500W Programmable Switching DC Power Supply PSU 12.5-120 PSU 20-76 1520W Programmable Switching DC Power Supply PSU 40-38 1520W Programmable Switching DC Power Supply PSU 60-25 1500W Programmable Switching DC Power Supply

User Manual x 1, Basic Accessories Kit x 1

FREE DOWNLOAD

LabView Driver

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OPTIONAL ASSESSORIES

GTL-248 GPIB Cable (2m) GTL-246 USB Cable, USB 2.0A-B TYPE CABLE, 4P GTL-251 GPIB-USB-HS (High Speed) PSU-01B PSU-01B Bus bar for 2 units in parallel connection PSU-GPIB PSU-GPIB GPIB Interface card (factory option) PSU-01C PSU-01C Cable for 2 units in parallel connection PSU-02B PSU-02B Bus bar for 3 units in parallel connection PSU-02C PSU-02C Cable for 3 units in parallel connection PSU-03B PSU-03B Bus bar for 4 units in parallel connection GPW-002 GPW-002 VDE power cord 3m ,PSU option PSU-03C PSU-03C Cable for 4 units in parallel connection

PSU-232 RS232 Cable with DB9 connector kit PSU-232 PSU-485 RS485 Cable with DB9 connector kit PSU-485 GRM-001 GRM-001 Slide bracket 2pcs/set ,PSU option

PSU-ISO-I PSU-ISO-I Isolate current remote control card(factory option) PSU-ISO-V PSU-ISO-V Isolate voltage remote control card(factory option) GPW-001 GPW-001 UL/CSA power cord 3m ,PSU option

GPW-003 GPW-003 PSE power cord 3m ,PSU option

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