





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-485 and 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 / 120A	
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



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						
ower	1200W	1500W	1520W	1520W	1500W						
OUTPUT RIPPLE AND NOISE											
V p-p (10~20MHz)	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											
oltage	2.6mV	3.25mV	4mV	6mV	8mV						
urrent	45mA	29mA	20.2mA	12.6mA	10mA						
INE REGULATION (change from 85 to 13		7	5 88								
oltage	2.6mV 22mA	3.25mV 14mA	4mV 9.6mA	6mV 5.8mA	8mV 4.5mA						
urrent	ZZITIA	14mA	9.omA	J.omA	4.5ffiA						
ROGRAMMING ACCURACY	2.16		70								
oltage 0.05% + (mV) urrent 0.2% + (mA)	3mV	6.25mV	10mV	20mV	30mV						
` '	200mA	120mA	76mA	38mA	25mA						
IEASUREMENT ACCURACY	C	12.5-37	20-1/	40	60 17						
oltage 0.1% + (mV) urrent 0.2% + (mA)	6mV 400mA	12.5mV 240mA	20mV 152mA	40mV 76mA	60mV 50mA						
OAD TRANSIENT RECOVERY TIM	1888	2701117	IJZIIIA	70111/4	301117						
ime	1.5ms	1ms	lms	1ms	1ms						
OUTPUT RESPONSE TIME	1.31115	Tills	11113	11115	11115						
		00	00	00	00						
ise Time (No Load & Full Load) all Time (No Load)	80ms 500ms	80ms 700ms	80ms 800ms	80ms 1000ms	80ms 1100ms						
all Time (Full Load)	10ms	50ms	50ms	80ms	80ms						
ROGRAMMING/MEASUREMENT RE	300270030000				22,112						
oltage	0.2mV	0.4mV	0.7mV	1.3mV	2mV						
urrent	6mA	4mA	2.5mA	1.2mA	0.8mA						
EMPERATURE COEFFICIENT (after a 3	0 minute warm-up)										
oltage	100PPM/°C after 30 m	inutes warm up									
Current	100PPM/°C after 30 m										
ERIES AND PARALLEL OPERATION	,										
Parallel Operation	Up to 4 units including	master unit									
Series Operation	Up to 2 units including master unit										
NVIRONMENTAL CONDITIONS											
Invironment	Indoor use, installation	cateorgy II (AC Input), po	llution degree 2								
Operating Temperature Range	0°C ~50°C										
torage Temperature Range	-25℃ ~70℃										
Operating Humidity Range	20% to 85% RH										
torage Humidity Range	Up to 90% or less relat	ive humidity (no condensat	ion)								
CINPUT	SECURITY SERVICE IN SECURITY IN	020 0 0 P 4									
Iorminal Input	100Vac ~ 240Vac, 50Hz ~ 60Hz, single phase										
iput Range	85VAc ~ 265Vac										
ower Factor (100Vac/200Vac) faximum Input Current (100Vac/200Vac)	0.99/0.98										
rush Current	21A/11A ≦50A										
fficiency(100Vac/200Vac)		020/1050/	920/ /970/	9.40/ 1970/	040/1070/						
IMENSIONS & WEIGHT	77%/79%	82%/85%	83%/86%	84%/87%	84%/87%						
2 00 12	YES										
nalog Control (Non-Isolated) C Remote Interface (Standard)	USB (Device/Host)/RS	-232 with RS-485/I AN									
C Remote Interface (Standard)		nterface (Isolated Voltage C	ontrol)/Analog Control Int	erface (Isolated Current (`ontrol):						
	,	,			,						
	Note: Selection one of	triree			Forced air cooling by internal fan						
Cooling Fan											

ORDERING INFORMATION

1200W Programmable Switching DC Power Supply PSU 6-200 1500W Programmable Switching DC Power Supply PSU 12.5-120 1520W Programmable Switching DC Power Supply PSII 20-76 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

Driver LabView Driver

Global Headquarters

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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 Bus bar for 2 units in parallel connection PSU-01C Cable for 2 units in parallel connection PSU-02B Bus bar for 3 units in parallel connection PSU-02C Cable for 3 units in parallel connection PSU-03B Bus bar for 4 units in parallel connection PSU-03C Cable for 4 units in parallel connection

OPTIONAL ASSESSORIES

RS 232 Cable with DB9 connector kit PSU-232 RS 485 Cable with DB9 connector kit PSU-485 GRM-001 Slide bracket 2pcs/set ,PSU option PSU-GPIB GPIB Interface card (factory option) Isolate current remote control card (factory option)

PSU-ISO-I PSU-ISO-V Isolate voltage remote control card (factory option) UL/CSA power cord 3m ,PSU option GPW-001 VDE power cord 3m ,PSU option GPW-002 PSE power cord 3m ,PSU option GPW-003

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