

PROGRAMMABLE DUAL-RANGE D.C. POWER SUPPLY



PSM-Series

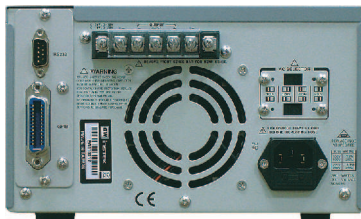


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FEATURES

- * Single Output Dual Range Max. 200W
- * High Resolution: 1mV/1mA
- * Stable & Clear Power: 0.01% Load/Line Regulation, 350 μ Vrms Ripple
- * 100 Sets Memory
- * Auto Step Running With Time Setting
- * Safety Design: OVP, OCP & OTP ; Output ON/OFF Control(OCP Provides Delay Setting to Prevent Trip of High Start-Up Current)
- * Self-Test and Software Calibration
- * High Visible Vacuum-Fluorescent Display
- * Front and Rear Output Terminal
- * Standard Interface : RS-232C, GPIB
- * Option : European Jack Type Terminal

Rear Panel



The PSM Series is single output / dual range, 120 or 200W, programmable linear DC power supply. OVP, OCP, OTP, and output On/Off control protect PSM and loads from unexpected conditions. High resolution, high regulation, low ripple are maintained at 1mV/1mA, 0.01%, and less than 350 μ Vrms, respectively. VFD panel with simultaneous view of output and parameter setting provide comfortable operation. Configuration is simplified with output limit store/recall function and Auto step running feature for continuous testing. Self-test and software calibration features reduce maintenance overhead. SCPI command set and Labview driver access through RS-232C or GPIB interface provide remote control and ATE software development capability. The PSM Series is an ideal choice for high precision, high reliability application such as QA verification and R&D.

SPECIFICATIONS			
	PSM-2010	PSM-3004	PSM-6003
DC OUTPUT			
Low Range	0 ~ 8V/20A	0 ~ 15V/7A	0 ~ 30V/6A
High Range	0 ~ 20V/10A	0 ~ 30V/4A	0 ~ 60V/3.3A
CONSTANT VOLTAGE OPERATION			
Regulation + (% of output + offset)	Load regulation $\leq 0.01\% + 2mV$ Line regulation $\leq 0.01\% + 2mV$		
Ripple & Noise	< 350 μ Vrms/3mVpp	< 350 μ Vrms/2mVpp	<50V:<500 μ Vrms/3mVpp >50V:<1mVrms/3mVpp
CONSTANT CURRENT OPERATION			
Regulation + (% of output + offset) Ripple & Noise	Load regulation $\leq 0.01\% + 250 \mu A$ Line regulation $\leq 0.01\% + 250 \mu A$ < 2mArms		
RESOLUTION			
Programming	Voltage 1mV Current 1mA	1mV 0.5mA	2mV 0.5mA
Readback	Voltage 0.5mV Current 1mA	0.5mV 0.1mA	1mV 0.5mA
Front Panel	Voltage 1mV Current 1mA(<10A), 10mA(\geq 10A)		
OVP/OCP	Voltage 10mV Current 10mA		
ACCURACY			
Programming	Voltage 0.05% + 10mV Current 0.2% + 10mA		
Readback	Voltage 0.05% + 5mV Current 0.15% + 5mA		
OVP/OCP	Voltage 0.1% + 10mV Current 0.4% + 10mA		
TRANSIENT RESPONSE			
	< 50 μ sec. (for output to recover to within 15mV following a change in output current from full load to half load)		
COMMAND PROCESSING TIME			
	100 ms		
VOLTAGE PROGRAMMING RESPONSE TIME (for resistive load)			
Voltage Up	Full Load 95 ms No Load 45 ms	50 ms 20 ms	80 ms 100 ms
Voltage Down	Full Load 30 ms No Load 450 ms	45 ms 400 ms	30 ms 450 ms
STABILITY (% of output + offset)			
Voltage Current	0.02% + 1mV 0.1% + 1mA		
MEMORY			
Store/Recall	100 sets		
TEMPERATURE COEFFICIENT PER °C \pm (% of Output + Offset)			
Voltage Current	0.01% + 3mV 0.02% + 3mA		
POWER SOURCE			
AC 100V/120V/220V \pm 10% , 230V : - 6% ~ + 10% , 50/60Hz			
INTERFACE			
Standard RS-232C , GPIB			
DIMENSIONS & WEIGHT			
230(W) x 140(H) x 380(D) ; Approx. 10kg			

ORDERING INFORMATION

- PSM-2010 200W Single Output, Programmable Power Supply
- PSM-6003 200W Single Output, Programmable Power Supply
- PSM-3004 120W Single Output, Programmable Power Supply

ACCESSORIES :

- User manual x 1, Power cord x 1,
- Test lead GTL-104 x 1, European test lead GTL-204 x 1,
- Ground lead GTL-201A x 1 (European terminal), Sense lead GTL-202 x 1 (European terminal)

Option

- Opt. 01: GRA-407 19", 4U Rack Mounting (19" , 4U)

Optional Accessories

- GTL-232 RS-232C Cable, 9-pin Female to 9-pin , Null Modem for PC Computer