



**PSM-2010/3004/6003**



Patent No: ZL 03 3 01174.5

**FEATURES**

- \* Single Output Dual Range Max. 200W
- \* High Resolution: 1mV/1mA
- \* Stable & Clear Power: 0.01% Load/Line Regulation, 350µVrms Ripple
- \* 100 Sets Memory
- \* Auto Step Running With Timer 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
- \* Highly Visible Vacuum-Fluorescent Display
- \* Front and Rear Output Terminal
- \* Standard Interface : RS-232C, GPIB
- \* Option : European Jack Type Terminal

**Rear Panel**



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The PSM-Series are single output / dual range, 120 or 200W, programmable linear DC power supplies. OVP, OCP, OTP, and output On/Off control protect the PSM-Series and their load from unexpected conditions. High resolution, high regulation, and low ripple are maintained at 1mV/1mA, 0.01%, and <350µVrms, respectively. Operation and configuration is simplified with a digital interface and a clear LCD display. Standard features include; store/recall output memories, automatic stepping with timers for continuous testing and self-testing and software calibration features to reduce maintenance overhead. SCPI programming, LabVIEW drivers, RS-232C and GPIB interfaces enable easy automated test system integration and remote control. The PSM-Series are an ideal choice for high precision applications such as QA verification and product development.

SPECIFICATIONS			
	PSM-2010	PSM-3004	PSM-6003
<b>DC OUTPUT</b>			
<b>Low Range</b>	0 ~ 8V/20A	0 ~ 15V/7A	0 ~ 30V/6A
<b>High Range</b>	0 ~ 20V/10A	0 ~ 30V/4A	0 ~ 60V/3.3A
<b>CONSTANT VOLTAGE OPERATION</b>			
<b>Regulation (% of output + offset)</b>	Load regulation ≤ 0.01% + 2mV Line regulation ≤ 0.01% + 2mV		
<b>Ripple &amp; Noise</b>	< 350µVrms/3mVpp	< 350µVrms/2mVpp	≤50V:<500µVrms/3mVpp >50V:<1mVrms/3mVpp
<b>CONSTANT CURRENT OPERATION</b>			
<b>Regulation (% of output + offset)</b>	Load regulation ≤ 0.01% + 250µA Line regulation ≤ 0.01% + 250µA		
<b>Ripple &amp; Noise</b>	< 2mArms		
<b>RESOLUTION</b>			
<b>Programming</b>	<b>Voltage</b> 1mV <b>Current</b> 1mA	1mV 0.5mA	2mV 0.5mA
<b>Readback</b>	<b>Voltage</b> 0.5mV <b>Current</b> 1mA	0.5mV 0.1mA	1mV 0.5mA
<b>Front Panel</b>	<b>Voltage</b> 1mV <b>Current</b> 1mA(<10A),10mA(≥10A)		
<b>OVP/OCP</b>	<b>Voltage</b> 10mV <b>Current</b> 10mA		
<b>ACCURACY</b>			
<b>Programming</b>	<b>Voltage</b> 0.05% + 10mV <b>Current</b> 0.2% + 10mA		
<b>Readback</b>	<b>Voltage</b> 0.05% + 5mV <b>Current</b> 0.15% + 5mA		
<b>OVP/OCP</b>	<b>Voltage</b> 0.1% + 10mV <b>Current</b> 0.4% + 10mA		
<b>TRANSIENT RESPONSE</b>			
	< 50µ sec ( for output to recover within 15mV following a change in output current from full load to half load)		
<b>COMMAND PROCESSING TIME</b>			
	100 ms		
<b>VOLTAGE PROGRAMMING RESPONSE TIME (for resistive load)</b>			
<b>Voltage Up</b>	<b>Full Load</b> 95 ms <b>No Load</b> 45 ms	50 ms 20 ms	80 ms 100 ms
<b>Voltage Down</b>	<b>Full Load</b> 30 ms <b>No Load</b> 450 ms	45 ms 400 ms	30 ms 450 ms
<b>STABILITY (% of output + offset)</b>			
<b>Voltage</b>	0.02% + 1mV		
<b>Current</b>	0.1% + 1mA		
<b>MEMORY</b>			
<b>Store/Recall</b>	100 sets		
<b>TEMPERATURE COEFFICIENT PER °C ± (% of Output + Offset)</b>			
<b>Voltage</b>	0.01% + 3mV		
<b>Current</b>	0.02% + 3mA		
<b>POWER SOURCE</b>			
	AC 100V/120V/220V±10%, 230V : - 6% ~ + 10%, 50/60Hz		
<b>INTERFACE</b>			
	Standard RS-232C , GPIB		
<b>DIMENSIONS &amp; WEIGHT</b>			
	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 Rack Mounting ( 19" , 4U )

**OPTIONAL ACCESSORIES**

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

**FREE DOWNLOAD**

**PC Software Driver** PC Software including Data Log ; Remote Control Software  
Labview Driver ; PSM VB Example ; PSM VC++ Example