

# PROGRAMMABLE DUAL-RANGE D.C. POWER SUPPLY



## 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



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>			
Low Range	0 ~ 8V/20A	0 ~ 15V/7A	0 ~ 30V/6A
High Range	0 ~ 20V/10A	0 ~ 30V/4A	0 ~ 60V/3.3A
<b>CONSTANT VOLTAGE OPERATION</b>			
Regulation (% of output + offset)	Load regulation ≤ 0.01% + 2mV Line regulation ≤ 0.01% + 2mV		
Ripple & Noise	< 350µVrms/3mVpp	< 350µVrms/2mVpp	≤50V:<500µVrms/3mVpp >50V:<1mVrms/3mVpp
<b>CONSTANT CURRENT OPERATION</b>			
Regulation (% of output + offset)	Load regulation ≤ 0.01% + 250µA Line regulation ≤ 0.01% + 250µA		
Ripple & Noise	< 2mArms		
<b>RESOLUTION</b>			
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(≥10A)		
OVP/OCP	Voltage 10mV Current 10mA		
<b>ACCURACY</b>			
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		
<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>			
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
<b>STABILITY (% of output + offset)</b>			
Voltage	0.02% + 1mV		
Current	0.1% + 1mA		
<b>MEMORY</b>			
Store/Recall	100 sets		
<b>TEMPERATURE COEFFICIENT PER °C ± (% of Output + Offset)</b>			
Voltage	0.01% + 3mV		
Current	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

<b>PSM-2010</b>	200W Single Output, Programmable Power Supply
<b>PSM-6003</b>	200W Single Output, Programmable Power Supply
<b>PSM-3004</b>	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

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View PSM-2010

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