PSM-2010/3004/6003

CE | RS-232 | GPIB | Rear-Panel Output | PC Software | LabVIEW Driver

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

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
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 ≤ 0.01% + 2mV Line regulation ≤ 0.01% + 2mV		
Ripple & Noise		< 350μVrms/3mVpp	< 350μVrms/2mVpp	≤50V:<500μVrms/3mVpp >50V:<1mVrms/3mVpp
CONSTANT CURRENT OPERATION				
Regulation (% of output + offset)		Load regulation ≤ 0.01% + 250μA Line regulation ≤ 0.01% + 250μA		
Ripple & Noise		< 2mArms		
RESOLUTION				
Programming	**Voltage**	1mV	1mV	2mV
	Current	1mA	0.5mA	0.5mA
Readback	**Voltage**	0.5mV	0.5mV	1mV
	Current	1mA	0.1mA	0.5mA
Front Panel	**Voltage**	1mV		
	Current	1mA(<10A),10mA(≥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				
		< 50μsec (for output to recover 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	50 ms	80 ms
	No Load	45 ms	20 ms	100 ms
Voltage Down	**Full Load**	30 ms	45 ms	30 ms
	No Load	450 ms	400 ms	450 ms
STABILITY (% of output + offset)				
Voltage		0.02% + 1mV		
Current		0.1% + 1mA		
MEMORY				
Store/Recall		100 sets		
TEMPERATURE COEFFICIENT PER °C ± (% of Output + Offset)				
Voltage		0.01% + 3mV		
Current		0.02% + 3mA		
POWER SOURCE				
AC 100V/120V/220V±10% , 230V : - 6% ~ + 10% , 50/60Hz				
INTERFACE				
Standard RS-232C , GPIB				
DIMENSIONS & WEIGHT				
230(W) x 140(H) x 380(D) ; Approx. 10kg				

Rear Panel

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