PSM-Series

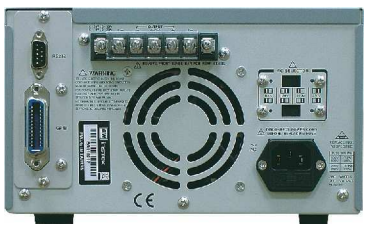
CE | RS-232 | GPIB | Rear-Panel Output | PC Software | LabVIEW Driver

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 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 350μVrms, 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 **High Range**		0 ~ 8V/20A 0 ~ 20V/10A	0 ~ 15V/7A 0 ~ 30V/4A	0 ~ 30V/6A 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)** **Ripple & Noise**		Load regulation ≤ 0.01% + 250 μA Line regulation ≤ 0.01% + 250 μA < 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				
		< 50μ 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	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 **Current**		0.02% + 1mV 0.1% + 1mA		
MEMORY				
Store/Recall		100 sets		
TEMPERATURE COEFFICIENT PER °C ± (% of Output + Offset)				
Voltage **Current**		0.01% + 3mV 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				

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