

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, 350 µVrms 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 $<\!350\,\mu$ Vrms, 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.

SPECIFICATION	ONS	DC14 2010	DCM 2004	DC14 C002	
		PSM-2010	PSM-3004	PSM-6003	
DC OUTPUT		T	Τ	T	
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		Load regulation ≤ 0.01% + 2mV			
(% of output + offset)		Line regulation ≤ 0.01% + 2mV			
Ripple & Nois	e	< 350 μVrms/3mVpp	< 350μVrms/2mVpp	≤50V:<500 μVrms/3mVpp >50V:<1mVrms/3mVpp	
CONSTANT CURRENT OPERATION					
Regulation		Load regulation ≤ 0.01% + 250µA			
(% of output + offset)		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 0.15% + 5mA			
OVP/OCP	Current Voltage	0.1% + 3mA 0.1% + 10mV			
011/001	Current	0.4% + 10mA			
TRANSIENT RESPONSE					
		< 50µ sec (for output to recover within 15mV following a change in output current from full load to half load)			
COMMAND PRO	COMMAND PROCESSING TIME				
100 ms					
VOLTAGE PROGRAMMING RESPONSE TIME (for resistive load)					
Voltage Up	Full Load	95 ms	50 ms	80 ms	
Tollage Op	No Load	45 ms	20 ms	100 ms	
Voltage Down	Full Load No Load	30 ms 450 ms	45 ms 400 ms	30 ms 450 ms	
STABILITY (% o	f output + offse			1	
Voltage Current	-	0.02% + 1mV 0.1% + 1mA			
MEMORY		0.170 + IIIIA			
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					

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