

Programmable Dual-Range D.C. Power Supply

NEW

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 μ Vrms 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

PSM-Series

		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 $\leq 0.01\% + 2mV$ Line regulation $\leq 0.01\% + 2mV$			
	Ripple & Noise	< 350 μ Vrms/3mVpp	< 350 μ Vrms/2mVpp	<50V:<500 μ Vrms/3mVpp >50V:<1mVrms/3mVpp	
CONSTANT CURRENT OPERATION	Regulation +(% of output + offset)	Load regulation $\leq 0.01\% + 250\mu A$ Line regulation $\leq 0.01\% + 250\mu A$			
	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			
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		< 50 μ 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	0.02% + 1mV			
	Current	0.1% + 1mA			
MEMORY		Store/Recall points 0~99			
TEMPERATURE COEFFICIENT PER °C \pm (% of Output+Offset)	Voltage	0.01% + 3mV			
	Current	0.02% + 3mA			
POWER SOURCE		AC 100V/120V/220V $\pm 10\%$, 230V : - 6% ~ + 10% , 50/60Hz			
INTERFACE	Standard	RS-232C , GPIB			
ACCESSORIES		Instruction manual x 1, Power cord x 1, Test Lead GTL-104(4A~10A) x 1 , European Test Lead GTL-204 x 1			
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

Option
 GRA-407 19", 4U Rack Mounting (19" , 4U)
 GTL-232 RS-232 Cable