

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 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 $\leq 0.01\% + 2\text{mV}$ Line regulation $\leq 0.01\% + 2\text{mV}$		
	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 $\leq 0.01\% + 250\mu\text{A}$ Line regulation $\leq 0.01\% + 250\mu\text{A}$		
	Ripple & Noise	< 2mArms		
RESOLUTION	Programming Voltage Current	1mV 1mA	1mV 0.5mA	2mV 0.5mA
	Readback Voltage Current	0.5mV 1mA	0.5mV 0.1mA	1mV 0.5mA
	Front Panel Voltage Current	1mV 1mA(<10A), 10mA($\geq 10\text{A}$)		
	OVP/OCP Voltage Current	10mV 10mA		
ACCURACY	Programming Voltage Current	0.05% + 10mV 0.2% + 10mA		
	Readback Voltage Current	0.05% + 5mV 0.15% + 5mA		
	OVP/OCP Voltage Current	0.1% + 10mV 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 No Load	95 ms 45 ms	50 ms 20 ms	80 ms 100 ms
	Voltage Down Full Load No Load	30 ms 450 ms	45 ms 400 ms	30 ms 450 ms
STABILITY (% of output + offset)	Voltage Current	0.02% + 1mV 0.1% + 1mA		
MEMORY		Store/Recall points 0~99		
TEMPERATURE COEFFICIENT PER $^{\circ}\text{C} \pm$ (% of Output+Offset)	Voltage Current	0.01% + 3mV 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

Option
GPA-407 10" 4U Rack Mounting (10" 4U)

1.800.561.8187

www.itm.com

information@itm.com