PROGRAMMABLE DUAL-RANGE D.C. POWER SUPPLY



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 μ Vrms 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 $<\!\!350\mu$ 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.

SPECIFICAT	ONS			
SPECIFICAT		PSM-2010	PSM-3004	PSM-6003
DC OUTPUT				. 511 0005
Low Range		0~ 8V/20A	0~15V/7A	0~30V/6A
High Range		0~20V/10A	0~30V/4A	0~60V/3.3A
		, ,	0~ 30V/4A	0~007/5.5A
Regulation	OLTAGE OPERA	Load regulation $\leq 0.01\%$	· 2····)/	
(% of output	+ offset)	Line regulation $\leq 0.01\%$ +		
• •	,			
Ripple & Nois	se	< 350 µVrms/3mVpp	< 350µVrms/2mVpp	<pre></pre>
CONSTANT C	URRENT OPERA	TION		
Regulation		Load regulation < 0.01%	+ 250µA	
(% of output	+ offset)	Line regulation < 0.01% +	- 250µA	
Ripple & Nois	se	< 2mArms		
RESOLUTION				
Programming	Voltage	1mV	1mV	2mV
	Current	1mA	0.5mA	0.5mA
Readback	Voltage	0.5mV	0.5mV	1mV 0.5mA
-	Current	1mA	0.1mA	0.JIIIA
Front Panel	Voltage	1mV		
010/025	Current	1mA(<10A),10mA(≥10A)		
OVP/OCP	Voltage	10mV 10mA		
	Current			
ACCURACY	-			
Programming	Voltage	0.05% + 10mV		
Deedle -l-	Current	0.2% + 10mA		
Readback	Voltage Current	0.05% + 5mV 0.15% + 5mA		
OVP/OCP	Voltage	0.1% + 10mV		
	Current	0.4% + 10mA		
TRANSIENT R	ESPONSE	1		
		< 50µ sec (for outputto	recover within 15mV fo	llowing a change
		in output current from f	ull load to half load)	0 0
COMMAND PRO	OCESSING TIME			
		100 ms		
VOLTAGE PRO	GRAMMING RE	SPONSE TIME (for resistive	e load)	
Voltage Up	Full Load	95 ms	50 ms	80 ms
	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 (%)	of output + offse		400 ms	450 ms
Voltage	or output : oneo	0.02% + 1mV		
Current		0.1% + 1mA		
MEMORY				
Store/Recall		100 sets		
TEMPERATURE	COEFFICIENT PE	$R^{\circ}C \pm (\% \text{ of Output + Offset})$		
Voltage		0.01% + 3mV		
Current		0.02% + 3mA		
POWER SOUR				
	/220V <u>±</u> 10% , 23	0V : - 6% ~ + 10% , 50/60Hz	Z	
INTERFACE				
Standard RS-2				
DIMENSIONS				
230(W) x 140(I	H) x 380(D) ; Ap	prox. 10kg		
		ORDERING INI	FORMATION	
		put, Programmable Power S		
		put, Programmable Power S		
PSM-3004 1	20W Single Out	put, Programmable Power S	Supply	
ACCESSORIES	:			
User manual x	1, Power cord x 1,	, Test lead GTL-104 x 1 , Europ	pean test lead GTL-204 x 1,	
Ground lead G	TL-201A x 1 (Euro	opean terminal), Sense lead G	TL-202 x 1 (European term	iinal)
OPTION				
Dpt. 01: GRA-407 Rack Mounting (19", 4U)				
OPTIONAL ACCESSORIES				
			And any few DC Course i	
		-pin Female to 9-pin , Null N	nodem for PC Computer	
FREE DOWN				
		uding Data Log ; Remote Co		
Driver	Labview Driver ; PSM VB Example ; PSM VC++ Example			

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