



Dual-Tracking Multi-Output DC Power Supplies PMR Series

Possible to change positive and negative voltage at the same ratio. Five models are available for Dual,Triple,Quadruple output. Remote control function Memory function



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A multi-output system in a simple way with TP-BUS

Dual-Tracking Multi-Output DC Power Supply PMR Series



voltage/constant current regulated DC power supply with a dual-tracking function. It uses a series regulator system to generate stable outputs with low noise. Moreover, it is compatible with various external controls.

Features

- Dual-tracking function capable of varying positive and negative voltages simultaneously
- Uncluttered, easy-to-use operation panel
- Preset memory function (three memories) for ease of use and convenience, even in manual operation.
- High-resolution voltage/current display (4-digit display)
- TP-BUS (serial communications), maximum control distance: 200 m
- External analog remote control
- Five models with 2, 3, or 4 outputs

Model Name

PMR18-2.5DU Dual Output
PMR35-1.2DU Dual Output
PMR18-1.3TR Triple Output
PMR25-1TR Triple Output
PMR24-1QU Quadruple Output

optionally available PIA4830), it is provided with the TP-BUS that allows a system to be built by simple connections. It can be widely used as a power supply for testing LCDs, PDPs, and other devices.



1 TP-BUS Terminal 2 Analog remote control terminal 3 AC INPUT Fuse Holder 4 AC INPUT Terminal

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Computer Control

The PMR Series power supplies can be controlled using an optional PIA4800 Series power supply controller. Connecting a PIA4800 Series power supply controller via TP-BUS allows easy remote control at a maximum distance of 200 m. This allows you to control the following.

- Setting output voltage/current of each channel
- Reading back output voltage/current of each channel
- Turning outputs on/off
- Specifying output channel number/query
- Specifying displayed output channel number
- Panel lock on/off

Example of connection

The use of one PIA4830 allows a maximum of 31 sets of PMR series power supplies to be controlled.



For more information on the PIA4800 Series, see the separate catalog for PIA4800 Series Power Supply Controllers.

External Analog Control

The PMR Series is equipped with external analog input as standard, allowing the outputs to be directly controlled from a test jig or other devices.



Specifications

Specifications		Output		Ripple		Line Regulation		Load Regulation		Power Source	Power Consumption	Weight
		CV	СС	CV	CC	CV	CC	CV	CC	AC	Approx.	Approx.
Model		V	А	mVrms	mArms	mV	mA	mV	mA	V±10%	VA	kg
PMR18-2.5DU	OUTPUT CH1	0 to +18	0 to +2.5	0.5 or less	1.5 or less	Within ±1	Within ±2	Within ±2	Within ±5			
	OUTPUT CH2	0 to -18	0 to -2.5	0.5 or less	1.5 or less	Within ±1	Within ±2	Within ±2	Within ±5			
PMR35-1.2DU	OUTPUT CH1	0 to +35	0 to +1.2	0.5 or less	1.5 or less	Within ±2	Within ±2	Within ±2	Within ±5			
	OUTPUT CH2	0 to -35	0 to -1.2	0.5 or less	1.5 or less	Within ±2	Within ±2	Within ±2	Within ±5			
PMR18-1.3TR	OUTPUT CH1	0 to +18	0 to +1.3	0.5 or less	1.5 or less	Within ±2	Within ±2	Within ±2	Within ±5	90V-110V(1¢)		
	OUTPUT CH2	0 to -18	0 to -1.3	0.5 or less	1.5 or less	Within ±2	Within ±2	Within ±2	Within ±5	106V-125V(1¢)		
	OUTPUT CH3	0 to +6	0 to +5	0.5 or less	4 or less	Within ±2	Within ±4	Within ±5	Within ±10	180V-220V(1¢)	280	6.5
PMR25-1TR	OUTPUT CH1	0 to +25	0 to +1	0.5 or less	1.5 or less	Within ±2	Within ±2	Within ±2	Within ±5	211V-250V(1¢)		
	OUTPUT CH2	0 to -25	0 to -1	0.5 or less	1.5 or less	Within ±2	Within ±2	Within ±2	Within ±5	Selectable using the		
	OUTPUT CH3	0 to +6	0 to +5	0.5 or less	4 or less	Within ±2	Within ±4	Within ±5	Within ±10	switch at the bottom		
PMR24-1QU	OUTPUT CH1	0 to +24	0 to +1	0.5 or less	1.5 or less	Within ±2	Within ±2	Within ±2	Within ±5	50/60Hz		
	OUTPUT CH2	0 to -24	0 to -1	0.5 or less	1.5 or less	Within ±2	Within ±2	Within ±2	Within ±5			
	OUTPUT CH3	0 to +12	0 to +1.5	0.5 or less	1.5 or less	Within ±1	Within ±2	Within ±2	Within ±5			
	OUTPUT CH4	0 to -12	0 to -1.5	0.5 or less	1.5 or less	Within ±1	Within ±2	Within ±2	Within ±5			

Unless otherwise specified, the specifications are based on the following conditions: pure resistive load, measurement at the output terminals, COM grounding (output 3 of PMR-TR is negative grounded), and use of the unit after a 30-minute warm-up.



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Specifications

Constant-voltage temperature coefficient .	. 100 ppm/°C or less	■ Withstand voltage	Between the primary input and the chassis			
Constant-current temperature coefficient .	. 300 ppm/°C or less		1.5 kV AC,No abnormality for one minute			
Transient response	. 50 μs, typical		Between the primary input and each output			
Meter indication	. Four-digit display for both voltage		1.5 kV AC,No abnormality for one minute			
	and current, maximum indication:	EMC (Complied with the following star	ndards)			
	99.99	IEC61326-1:1997-03 / A1:1998-05	. Electrical Equipment for			
Voltmeter	. Accuracy:		Measurement, Control and Laboratory			
	±(0.15% rdg + 20 mV)(OUTPUT CH1,2,4		Use - EMC requirements			
	CH3 of PMR24-1QU)	Radiated Emissions	. Class A			
	±(0.2% rdg.+ 5mV)(OUTPUT CH3)	Conducted Emissions	. Class A			
	Resolution:	IEC61000-4-2:1995-01 / A1:1998-01	. Electrostatic discharge			
	10 mV (OUTPUT CH1,2,4,CH3 of	IEC61000-4-3:1995-02	. Radiated, radio-frequency,			
	PMR24-1QU)		electromagnetic field			
	1mV (OUTPUT CH3)	IEC61000-4-4:1995-01	Electrical fast transient/Burst			
Ammeter	. Accuracy:	IEC61000-4-5:1995-02	Surge			
	±(0.3% rdg.+ 5 mA)(OUTPUT CH1,2,4)	rdg.+ 5 mA)(OUTPUT CH1,2,4) IEC61000-4-6:1996-04				
	±(0.3% rdg.+ 2 mA)(OUTPUT CH1 of	0.3% rdg.+ 2 mA)(OUTPUT CH1 of IEC61000-4-11:1994-06				
	PMR24-1QU)		voltage variations			
	±(0.4% rdg.+ 5 mA)(OUTPUT CH3)	■ Safety (Complied with the following standards)				
	±(0.3% rdg.+ 5 mA)(OUTPUT CH3 of	IEC61010-1:1990-09 / A2:1995-07	. Safety Requirements for Electrical			
	PMR24-1QU)		Equipment for Measurement, Control			
	Resolution: 1 mA		and Laboratory Use			
Protective circuits	. Output fuse: provided for each output		PMR is designed so that it is			
	Input fuse: 4 A, 250 V		connected to a power supply of			
	Thermal fuse: 126°C		overvoltage category I and II as Class			
	(inside the power transformer)		I equipment in environment of			
	Thermal cutout: 95°C		pollution degree 2.			
	(on pass-transistor heat sink)	Operating ambient temperature/humidity	0 to +40°C, 10 to 80% R.H.			
Output ON/OFF	. All outputs are turned ON/OFF		(no condensation)			
	Simultaneously.	Cooling system	Forced air cooling			
Tracking control	. Outputs 1 and 2	Dimensions	$.142.5W \times 124 (160)H \times 350 (380) mmD$			
Tracking operation ON/OFF	. Operable					
Memory function	. Three memories (for storing setup	Rack Mount Option	ns			
	voltage and current values of all		MAX380 I Inits:mm			
	outputs)	142.5 MAX20				
Lock function	. The front panel switches and dial,or		ľ			
	the dial function is inactivated.	MAX1124 ()				
OHP alarm signal output	. Output with a photocoupler		<u> </u>			
Grounding	. Positive, COM, or negative grounding					
-	possible.	AX26				
Common	. Common to all output	2	\sim			
	(Note that output 3 of the PMR-TR					
	type is independent.)					
■ Isolation Voltage to ground	. ±250 VDC					
Insulation resistance	. Between the primary input and the chassis					
	30 M or more at 500VDC					
	Between the primary input and each output					
	30 M or more at 500 VDC					
	Between each output and the chassis					
	20 M or more at 500 VDC	Blank panel KBP3-3 - Rack adapter KRA1	50 Blank panel KBP3-3 - Rack adapter KRA3			



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