COMPACT LOW-NOISE DC POWER SUPPLY (CV·CC)



Both the PMC and PMC-A Series Deliver High Reliability and Sophisticated Features in a Compact Body

Outline

The PMC and PMC-A series are compact, highperformance, constant voltage, constant current series regulated DC power supplies. The adoption of series regulated design realizes a highly stable output with a low level of output noise. LED digital meter which is legible even in dimly lit location, and electronic switches which eliminate relay chattering, are also featured in this series. In addition, members of the PMC-A series are equipped with various remote control functions, and when combined with any member of the power supply controllers, allow compatibility with GPIB systems. These compact, general-purpose power supplies feature outstanding cost and performance that allow them to accommodate a diverse range of operations, from research and development applications to aging and system power supplies used in production and service applications.

Computer Control

- The Power Supply has a capable of Computer Control by using with PIA4800 Series. (For the detailed features of PIA4800 Series, please refer to Page 5-2)
- The Power Supply has a capable of Computer Control by using with PIA3200. (For the detailed features of PIA3200, please refer to Page 5-9)
- The Power Supply has a capable of Computer Control by using with DPO2212A. (For the detailed features of DPO2212A, please refer to Page 5-20)

By combining a member of the PMC-A series with the power supply controllers, the following functions can be controlled via GPIB.

•Setting of output voltage and output current

•Readout of output current with an optional shunt unit.



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Features





PMC-A Series

Equipped with a full range of functions to accommodate automated testing and other applications.

Features:

- Simultaneous digital display of voltage and current values
- GPIB control by combining with the power supply controllers.
- External analog remote control of voltage and current
- Front Panel Output ON/OFF switch (also operated by remote control)
- 10-turn potentiometer for setting of voltage and current
- Remote sensing function to compensate for voltage drops caused by resistance of wires to load. (Only models of which rated output voltage is 18V or 35V)

Model	CV(V)	CC(A)		
PMC18-1A		0 to 1		
PMC18-2A	0 to 18	0 to 2		
PMC18-3A	01010	0 to 3		
PMC18-5A		0 to 5		
PMC35-0.5A		0 to 0.5		
PMC35-1A	0 to 35	0 to 1		
PMC35-2A	01035	0 to 2		
PMC35-3A		0 to 3		
PMC70-1A	0 to 70	0 to 1		
PMC110-0.6A	0 to 110	0 to 0.6		
PMC160-0.4A	0 to 160	0 to 0.4		
PMC250-0.25A	0 to 250	0 to 0.25		
PMC350-0.2A	0 to 350	0 to 0.2		
PMC500-0.1A	0 to 500	0 to 0.1		

PMC Series

Outstanding cost performance by providing all necessary functions in a simple and efficient package.

Features:

- Front panel output ON/OFF switch
- 10-turn potentiometer for setting of voltage (single-turn potentiometer for setting of current)
- Reasonably priced

		-
Model	CV(V)	CC(A)
PMC18-2		0 to 2
PMC18-3	0 to 18	0 to 3
PMC18-5		0 to 5
PMC35-1	0 to 35	0 to 1
PMC35-2		0 to 2
PMC35-3		0 to 3



User Options (1)Output Terminal Cover:OTC01-PMC*¹ (2)Carrying Handle:CH01-PMC*² (3)Guard Cap:GP01-PMC

*1:Available for models output rating are 70V and more *2:Available for type II models

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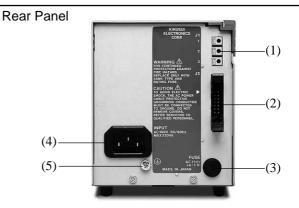
Features

PMC and PMC-A Series Common Features

- Capacity can be expanded by one-control parallel operation
- Green LED digital meter that is easily visible even in dimly lit locations
- Improved, operator safety by enclosing the heat sink within the case
- Various adjustment dials and switches are centralized on the sub-front panel for ease of operation and ease of maintenance
- Overvoltage protector (OVP) provided as standard equipment



Various adjustment dials and remote control setting switches are located on the sub-front panel.



(1)One-control parallel operation input and output terminals
(2)Analog remote control terminal (PMC-A Series only)
(3)AC input fuse holder
(4)AC input terminal
(5)Ground terminal

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Specifications

*Specifications are based on the conditions indicated as follow unless otherwise specified: Resistance load, output grounded, remote sensing off, warm-up period of 30 minutes.

Output vo 100 ppm/ ⁴ Transient Output Current Output Current		nuously Varia it voltage tem pm/°C(typ)	•	efficient:	■ Isoration Voltage from Ground	Models of which rated output voltage is 18V and $35V: \pm 250V$ Other Models: $\pm 500V$			
Output Current	Cont (PM	nuously varial A series)	ble by 10-tu		■ Protective Circuitry	Output overvoltage protection(OVP) Setting range: 5% to 105% of rating Input fuse / temperature fuse(130°C)			
	poter Outp	tiometer(PMC	C series)		Functions (PMC-A series only)	Output voltage remote control By external voltage: 0 to 10V By external resistance: 0 to 10kΩ Output current remote control			
$(PMC-A \text{ series})$ $(PMC-A \text{ series})$ $(Continuously variable by spotentiometer(PMC series)$ $(Dutput current temperatur200 ppm/°C(typ)$ $(Green LED)$ $Output Voltage$ $Display error \pm (0.5\% \text{ rdg} + (typ))$ $Temperature coefficient: 3$ $Output Current$ $Display error \pm (1\% \text{ rdg} + 5)$ (typ) $Temperature coefficient: 4$ $Voltmeter Display(Fixed Range)$ $Rated Output Voltage$ $Max.Digit Displayed$ $Rated Output Voltage$ $Rated Output A I 19.99$ $Rated Output A I 19.99$ $Rated Output A I 10.99$						By external voltage: 0 to 10V			
 Output Voltag 	ay error $\pm (0.59)$	cient: 300 p	pm/°C(typ)		By external resistance: 0 to $10k\Omega$ Output ON/OFF control(Output off by external make contact) Remote sensing(Only models of which rated				
	(typ)	•	0 0	,	■ Operation	output voltage is 18V and 35V) Series operation ^{*1}			
						Parallel operation and one control parallel			
		<u> </u>		Max.Digit Displayed		operation are available with same model.*2			
	199.9 999		nan 1A	9.99	Options	Rack mounting adapters JIS standards:KRA150 EIA standerds:KRA3 Bauer surply controller model BIA2200			
 Ambient Temper Ambient Humidi Cooling Method 	rature 0 to 4 ity 10 to	0°C(with no c	condensation no condens	n of dew) sation of dew)		Power supply controller: model PIA3200 2-core shielded cable for connecting PMC-A series with model PIA3200: SC02-PIA Shunt unit: model SH-10			

Enosifications	Out	tput	Rip	ple	Line Re	gulation	Load Re	gulation	Power Source*3	Power Consumption	Туре	Weight
Specifications	CV	CC	CV	CC	CV	CC	CV	CC	AC	Approx.		Approx.
Model	V	А	mVrms	mArms	mV	mA	mV	mA	V±10%	VA		kg
PMC18-1A	0 to 18	0 to 1	0.5	1	1	10	2	5	100	50	Ι	3.5
PMC18-2A	0 to 18	0 to 2	0.5	1	1	10	2	5	100	100	Ι	4.0
PMC18-3A	0 to 18	0 to 3	0.5	1	1	10	4	5	100	160	Ι	5.0
PMC18-5A	0 to 18	0 to 5	0.5	2	1	5	5	10	100	230	II	6.0
PMC35-0.5A	0 to 35	0 to 0.5	0.5	1	3	10	3	5	100	50	Ι	3.5
PMC35-1A	0 to 35	0 to 1	0.5	1	3	10	3	5	100	95	Ι	4.0
PMC35-2A	0 to 35	0 to 2	0.5	1	3	10	3	5	100	190	Ι	5.0
PMC35-3A	0 to 35	0 to 3	0.5	1	3	5	4	10	100	240	II	6.0
PMC70-1A	0 to 70	0 to 1	1	1	5	2	5	10	100	150	II	5.5
PMC110-0.6A	0 to 110	0 to 0.6	2	1	7	2	7	5	100	150	II	5.5
PMC160-0.4A	0 to 160	0 to 0.4	3	1	10	2	10	5	100	150	II	5.5
PMC250-0.25A	0 to 250	0 to 0.25	3	1	15	1	15	5	100	150	II	5.5
PMC350-0.2A	0 to 350	0 to 0.2	5	1	25	1	25	5	100	150	II	5.5
PMC500-0.1A	0 to 500	0 to 0.1	10	1	30	10	30	3	100	110	II	5.0
PMC18-2	0 to 18	0 to 2	0.5	1	1	10	2	5	100	100	Ι	4.0
PMC18-3	0 to 18	0 to 3	0.5	1	1	10	4	5	100	160	Ι	5.0
PMC18-5	0 to 18	0 to 5	0.5	2	1	5	5	10	100	230	II	6.0
PMC35-1	0 to 35	0 to 1	0.5	1	3	10	3	5	100	95	Ι	4.0
PMC35-2	0 to 35	0 to 2	0.5	1	3	10	3	5	100	190	Ι	5.0
PMC35-3	0 to 35	0 to 3	0.5	1	3	5	4	10	100	240	II	6.0

*1:The number of Power Supplies that can be connected in series is limited by the voltage rating with isolation voltage. For example, for 35V type 250/35=7.14...up to seven units can be connected.

*2: The number of Power Supplies that can be connected in parallel is limited up to four units including the master power supply.

*3:POWER SOURCE:(1)105V to 130V (2)180V to 220V (3)195V to 239V (4) 210V to 250V are available at request.