

Compact DC Power Supply PMC-A/PMC Series

Both the PMC and PMC-A Series Deliver High Reliability and Sophisticated Features in a Compact Body Maximum Output Voltage (18V to 500V) 20 Models



www.valuetronics.com

PMC-A/PMC Series

DC Power Supply (CV/CC)

Basic Standard for the Compact Power Supply

The PMC and PMC-A Series are compact, high-performance, 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, some of the PMC-A Series are equipped with various remote control functions, and when connected with power supply controllers, allow compatibility with GPIB systems.



PMC Series

PMC-A Series

Features (PMC-A Series)

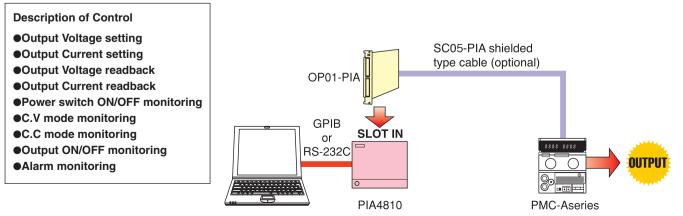
- Simultaneous display of voltage and current values.
- GPIB control by combining with power supply controllers.
- External analog remote control of voltage and current.
- Equipped with output monitoring function (voltage, current, status)
- Front Panel Output ON/OFF switch.
- 10-turn potentiometer for setting of voltage and current.
- Remote sensing function (Only models of which rated output voltage is 18V or 35V)
- Capacity can be expanded by Master-slave parallel operation
- Overvoltage protection (OVP) and overheating protection (OHP) are provided as standard functions.

Features (PMC Series)

- Front panel output ON/OFF switch.
- 10-turn potentiometer for setting of voltage (single-turn potentiometer for setting of current)
- Capacity can be expanded by one-control parallel operation
- Overvoltage protection (OVP) and overheating protection (OHP) are provided as standard functions.

Computer Control (PMC-A series only)

The Power Supply has a capability of Computer Control by using with PIA4800 Series.



www.valuetronics.com

Specifications

Model	Output		Ripple		Line Regulation		Load Regulation		Power Source*	Power Consumption	Dimen-	Weight
	CV	CC	CV	CC	CV	CC	CV	CC	AC	Approx.	310113	Approx.
	V	A	mVrms	mArms	mV	mA	mV	mA	V±10%	VA	Туре	kg
PMC18-1A	0 to 18	0 to 1	0.5	1	1	10	2	5	100	50	1	3.5
PMC18-2A	0 to 18	0 to 2	0.5	1	1	10	2	5	100	100	I	4.0
PMC18-3A	0 to 18	0 to 3	0.5	1	1	10	4	5	100	160	I	5.0
PMC18-5A	0 to 18	0 to 5	0.5	2	1	5	5	10	100	230	П	6.0
PMC35-0.5A	0 to 35	0 to 0.5	0.5	1	3	10	3	5	100	50	1	3.5
PMC35-1A	0 to 35	0 to 1	0.5	1	3	10	3	5	100	95	1	4.0
PMC35-2A	0 to 35	0 to 2	0.5	1	3	10	3	5	100	190	1	5.0
PMC35-3A	0 to 35	0 to 3	0.5	1	3	5	4	10	100	240	П	6.0
PMC70-1A	0 to 70	0 to 1	1	1	5	2	5	10	100	150	П	5.5
PMC110-0.6A	0 to 110	0 to 0.6	2	1	7	2	7	5	100	150	П	5.5
PMC160-0.4A	0 to 160	0 to 0.4	3	1	10	2	10	5	100	150	П	5.5
PMC250-0.25A	0 to 250	0 to 0.25	3	1	15	1	15	5	100	150	П	5.5
PMC350-0.2A	0 to 350	0 to 0.2	5	1	25	1	25	5	100	150	П	5.5
PMC500-0.1A	0 to 500	0 to 0.1	10	1	30	1	30	3	100	110	Ш	5.0
PMC18-2	0 to 18	0 to 2	0.5	1	1	10	2	5	100	100	I	4.0
PMC18-3	0 to 18	0 to 3	0.5	1	1	10	4	5	100	160	I	5.0
PMC18-5	0 to 18	0 to 5	0.5	2	1	5	5	10	100	230	П	6.0
PMC35-1	0 to 35	0 to 1	0.5	1	3	10	3	5	100	95	I	4.0
PMC35-2	0 to 35	0 to 2	0.5	1	3	10	3	5	100	190	1	5.0
PMC35-3	0 to 35	0 to 3	0.5	1	3	5	4	10	100	240	Ш	6.0

*Power Source: (1)105V to 130V (2)180V to 220V (3)195V to 239V (4) 210V to 250V are available upon request.

Unless otherwise specified, the specifications are based on the following conditions: resistance load, output grounded, remote sensing off, warm-up period of 30 minutes.

 Output Voltage 	Continuously variable by 10-tu	urn potentiometer	Ground	Positive or negative ground			
	Output voltage temperature c	oefficient:	Ambient Temperature	0 to +40°C (no condensation)			
	100 ppm/°C (typ)		Ambient Humidity	10 to 80% rh(no condensation)			
	Transient response time: 50µs	3	■Cooling Method	Conventional air cooling			
	100µs:(PMC70-1A,PMC110-0	.6A,PMC160-0.4A,	■Isolation Voltage	Models of which rated output voltage is 18V and			
	PMC250-0.25A,PMC350-0.2A	,PMC500-0.1A)	from Ground	35V: ±250V			
Output Current	Continuously variable by 10-tu	urn potentiometer		Other Models: ±500V			
·	(PMC-A series)		Protection	Output overvoltage protection (OVP)			
	Continuously variable by sing	le-turn		Setting range: 5% to 105% of rating			
	potentiometer (PMC series)			Input fuse / temperature fuse (130°C)			
	Output current temperature co	oefficient:	Functions	Output voltage remote control			
	200 ppm/°C (typ)		(PMC-A series only)	By external voltage: 0 to 10V			
Meter Display (Green L	_ED)			By external resistance: 0 to $10k\Omega$			
Output Voltage	Display error ±(0.5% rdg +2 c	digits) at 23°C ±5°C (typ)		Output current remote control			
1 0	Temperature coefficient: 300	ppm/°C (typ)		By external voltage: 0 to 10V			
 Output Current 	Display error ±(1% rdg +5 dic	gits) at 23°C ±5°C (typ)		By external resistance: 0 to $10k\Omega$			
·	Temperature coefficient: 400	, , , , , , , , , , , , , , , , , , , ,		Output ON/OFF control (Output off by external			
●Voltmeter Display (F	Fixed Range)			make contact)			
	Rated Output Voltage Ma	ax.Digit Displayed		Remote sensing (Only models of which rated			
		.99		output voltage is 18V and 35V)			
		9.9		Remote monitoring function			
	250V, 350V, 500V 999			Monitor signal output			
		-		V MON (at rated voltage output): 10.0V±0.5V			
Ammeter Display (F	Fixed Range)			I MON (at rated current output): 10.0V±0.5V			
	Rated Output Ampere Ma	ax.Digit Displayed		Status signal output			
		399		OUT ON / CV /CC /ALM / PWR ON			
	Model more than 1A 9.9		Operation	Series operation*1			
				Parallel operation is available with same			
				model.*2			

 model.*2

 Dimensions (approx.)

 PMC-A Series

 Type I :107W × 124(134)H × 270(305)Dmm

 Type II:107W × 124(134)H × 350(385)Dmm

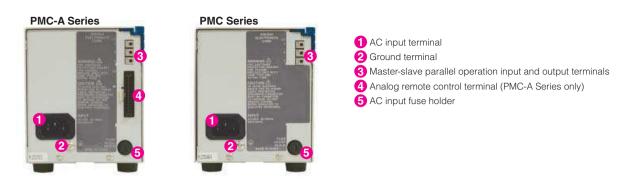
 PMC Series

 Type I :107W × 124(134)H × 270(290)Dmm

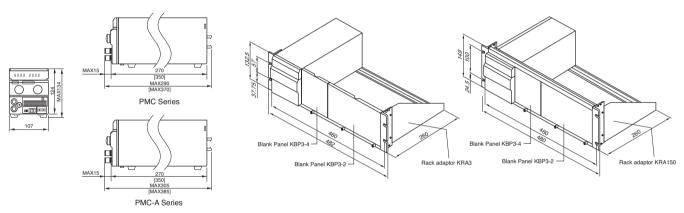
 Type II:107W × 124(134)H × 350(370)Dmm

*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.

Rear Panel



PMC-A/PMC Series External Dimensional Diagrams / Rack Mount Option



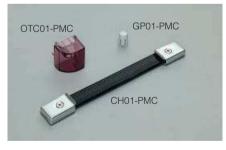
Dimensional Drawings [] for Type II

5-11-51-

Options

- Output Terminal Cover ... OTC01-PMC
- Guard Cap..... GP01-PMC
- Carrying Handle CH01-PMC

*The CH01-PMC can be installed on the TYPE II models.





KIKUSUI ELECTRONICS CORPORATION

1-1-3, Higashiyamata, Tsuzuki-ku, Yokohama, 224-0023, Japan Phone: (+81) 45-593-7570, Facsimile: (+81) 45-593-7571, www.kikusui.co.jp

KIKUSUI AMERICA, INC. 1-877-876-2807 www.kikusuiamerica.com 1633 Bayshore Highway, Suite 331, Burlingame, CA 94010 Phone : 650-259-5900 Facsimile : 650-259-5904

KIKUSUI TRADING (SHANGHAI) Co., Ltd. www.kikusui.cn KIKUSUI Room, D-01,11F, Majesty Bld, No.138, Pudong Ave, Shanghai City Phone : 021-5887-9067 Facsimile : 021-5887-9069

For our local sales distributors and representatives, please refer to "sales network" of our website.

www.valuetronics.com

•Distributor:

All products contained in this catalogue are equipment and devices that are premised on use under the supervision of qualified personnel, and are not designed or produced for home-use or use by general consumers. Specifications, design and so forth are subject to change and production may be discontinued when necessary. Product names, company names and brand names contained in this catalogue ergeneent the respective registered trade name or trade mark. Colors, textures and so forth of photographs shown in this catalogue may differ from actual products due to a limited fidelity in printing. Although every effort has been made to provide the information as accurate as possible for this catalogue, certain details have unavoidably been omitted due to limitations in space. If you find any misprints or entry buy this confirm specifications, price, accessories or anything that may be unclear when placing an order or concluding a purchasing agreement.

Printed in Japan

Issue:Oct.2009

Unit:mm