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
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.

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.

Description of Control
- Output Voltage setting
- Output Current setting
- Output Voltage readback
- Output Current readback
- Power switch ON/OFF monitoring
- C.V mode monitoring
- C.C mode monitoring
- Output ON/OFF monitoring
- Alarm monitoring
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Voltage</th>
<th>Ripple Line Regulation</th>
<th>Load Regulation</th>
<th>Power Source*</th>
<th>Power Consumption</th>
<th>Dimensions</th>
<th>Weight Approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CV V</td>
<td>CC A</td>
<td>CV V</td>
<td>CC A</td>
<td>CV V</td>
<td>CC A</td>
<td>AC</td>
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<td>PMC18-1A</td>
<td>0 to 18</td>
<td>0 to 1</td>
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<td>1</td>
<td>1</td>
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<td>1</td>
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<td>0.5</td>
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<td>0.5</td>
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<td>0 to 3</td>
<td>0.5</td>
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<td>3</td>
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<tr>
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<td>3</td>
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<tr>
<td>PMC35-3</td>
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<td>0.5</td>
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<td>3</td>
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<td>4</td>
</tr>
</tbody>
</table>

*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-turn potentiometer
- Output voltage temperature coefficient: 100 ppm/°C (typ)
- Transient response time: 50μs
- Output current temperature coefficient: 200 ppm/°C (typ)

### Output Current
- Continuously variable by 10-turn potentiometer
- Continuously variable by single-turn potentiometer
- Output current temperature coefficient: 200 ppm/°C (typ)

### Meter Display (Green LED)
- Output Voltage: Display error ±(0.5% rdg +2 digits) at 23°C ±5°C (typ)
- Temperature coefficient: 300 ppm°C (typ)
- Output Current: Display error ±(1% rdg +5 digits) at 23°C ±5°C (typ)
- Temperature coefficient: 400 ppm°C (typ)

### Voltmeter Display (Fixed Range)
- Rated Output Voltage: Max. Digit Displayed
  - 18V: 19.99
  - 32V, 70V, 110V, 160V: 199.9
  - 250V, 350V, 500V: 999

### Ammeter Display (Fixed Range)
- Rated Output Ampere: Max. Digit Displayed
  - Model less than 1A: 0.999
  - Model more than 1A: 9.99

### Dimensions (approx.)
- PMC-A Series
  - Type I: 107W × 124(134)H × 270(306)D
  - Type II: 107W × 124(134)H × 350(385)D
- PMC Series
  - Type I: 107W × 124(134)H × 270(306)D
  - Type II: 107W × 124(134)H × 350(385)D

*1: The number of Power Supplies that can be connected in series is limited by the voltage rating with isolation voltage. For example, for 55V type 250V×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

Unit:mm

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.

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