

# PC SERIES

## 70~100W AC/DC CONVERTERS Single Output & Dual Outputs



H35×W70×L158 (mm)

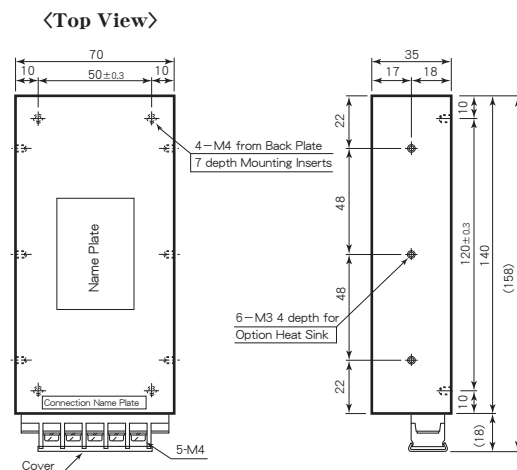
### Features

- |   |                                |
|---|--------------------------------|
| ● Input-Output Isolation                              | ● 入出力間絶縁                       |
| ● Completely Molding Device                           | ● 完全モールド製品                     |
| ● High Efficiency 80~87%                              | ● 高効率 80~87%                   |
| ● Long Life by Mounting on Chassis or Using Heat Sink | ● シャーシや放熱板への取付けにより長寿命化         |
| ● Input Rush Current Protection                       | ● 入力突入電流保護回路内蔵                 |
| ● Output Over Voltage Protection                      | ● 出力過電圧保護回路内蔵                  |
| ● Operating Ambient Temperature -25°C~+71°C           | ● 動作周囲温度 -25°C~+71°C           |
| ● Conformity to VCCI Class B, FCC Class B             | ● VCCI Class B, FCC Class B 準拠 |
| ● Conformity to RoHS Directive                        | ● RoHS指令対応                     |

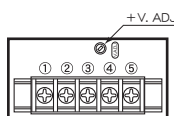
### General Characteristics

- |                             |  |  |
|-----------------------------|--|--|
| ● Input Voltage, Range      | (at Ta : 25°C, Full Load, Nominal Vin) | AC100, 200V (See Table 1)                              |
| ● Input Frequency           |  | 47~440Hz   |
| ● Output Voltage, Current   |  | See Table 1  |
| ● Output Voltage Adjustment |  | Single : ±5%<br>Dual : ±5%                             |
| ● Efficiency                |  | See Table 1  |
| ● Line Regulation           |  | 0.1% max. (at Vin Range)                               |
| ● Load Regulation           |  | 0.5% max.<br>1% max. (5V Vout only)<br>(0~100% Load)   |
| ● Output Ripple             |  | (0.1% Vout+40mV) p-p max.<br>(0.5% Vout+50mV) p-p max. |
| ● Output Noise              |  | Built-in, Auto-restart (See Fig. 2)                    |
| ● Short Circuit Protection  |  | 115~140% Output Voltage                                |
| ● Over Voltage Protection   |  | 0.02%/°C max.  |
| ● Temperature Coefficient   |  | -25°C~+71°C (See Fig. 1)                               |
| ● Operating Ambient Temp.   |  | +85°C  |
| ● Max. Case Temperature     |  | -40°C~+85°C  |
| ● Storage Temperature       |  | AC2000V one minute<br>(Input-Output-Case)              |
| ● Isolation Voltage         |  | 100MΩ min. (at DC1000V)<br>(Input-Output-Case)         |
| ● Isolation Impedance       |  | Main Body : 800g max.<br>Pair Heat Sinks : 250g max.   |
| ● Weight                    |  | 20~95% RH  |
| ● Humidity                  |  | 196m/s <sup>2</sup> (11msec 3directions)               |
| ● Shock                     |  | 10~55Hz 49m/s <sup>2</sup><br>(30minutes 3directions)  |
| ● Vibration                 |  | VCCI Class B, FCC Class B                              |
| ● EMI                       |  | Aluminum Case  |
| ● Surface Structure         |  | Single : 110,000H                                      |
| ● MTBF                      |  | Dual : 90,000H<br>(Ta : 25°C, 80% Load, Nominal Vin)   |
| ● Warranty                  |  | 5 years  |

### Terminal Outs & Dimensions (±0.5mm)



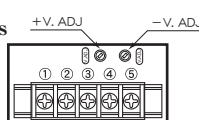
#### Single Output



#### Terminal Outs

①	AC in
②	AC in
③	No Connection
④	+Vdc out
⑤	0 Vdc out

#### Dual Outputs

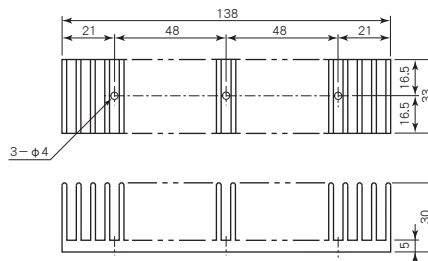


#### Terminal Outs

①	AC in
②	AC in
③	+Vdc out
④	Common
⑤	-Vdc out

注：フレームグラウンド端子は取付ネジを使用してください。  
Note : Frame ground terminal be used with mounting screw.

### Option Heat Sink



Option Heat Sink Model : A3-3664

### Selection Guide

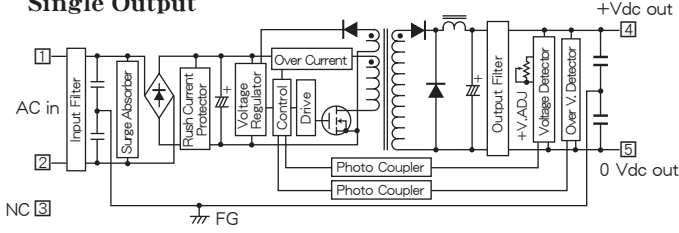
Table 1

Model Number	Input Volt. (Range) (V. AC)	Output Voltage (V. DC)	Output Current (A)	Efficiency (Typical) (%)
PC 100 - 5 S 14A	100 (85~132)	5	14	80
PC 100 - 12 S 8.3A		12	8.3	84
PC 100 - 15 S 6.6A		15	6.6	85
PC 100 - 24 S 4.2A		24	4.2	87
PC 100 - 12 D 4A		±12	± 4	84
PC 100 - 15 D 3.3A	±15	± 3.3	84	
PC 200 - 5 S 14A	200 (175~264)	5	14	80
PC 200 - 12 S 8.3A		12	8.3	84
PC 200 - 15 S 6.6A		15	6.6	85
PC 200 - 24 S 4.2A		24	4.2	87
PC 200 - 12 D 4A		±12	± 4	84
PC 200 - 15 D 3.3A	±15	± 3.3	84	

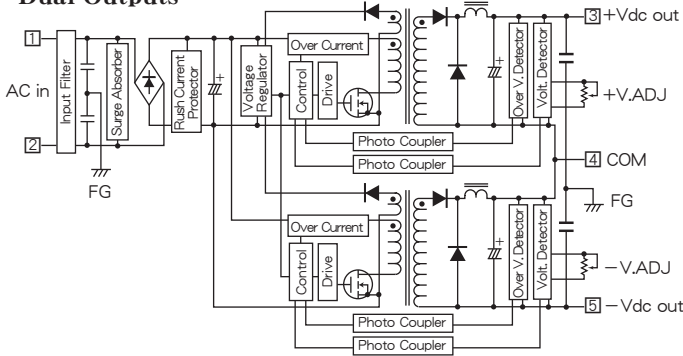
# PC SERIES DATA SHEET

## Block Diagram

### Single Output



### Dual Outputs



## Characteristic Curves

Fig. 1 Derating Curve

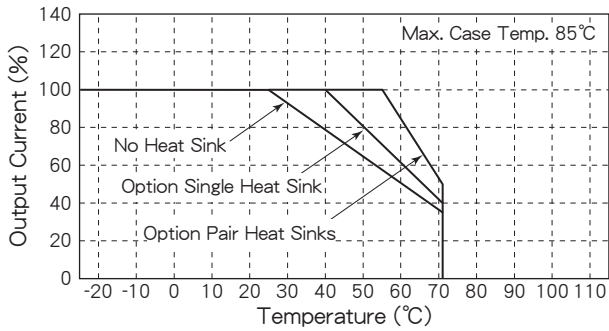


Fig. 2 Short Circuit Operating Area

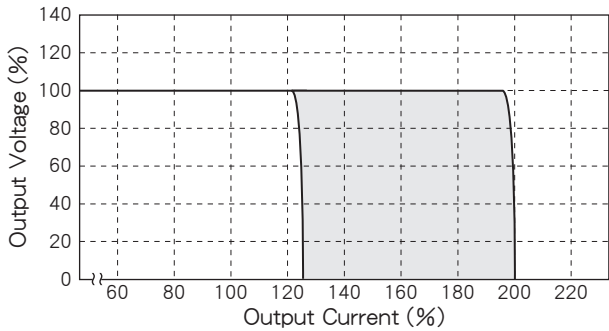


Fig. 3 Temperature Characteristic on Case Surface

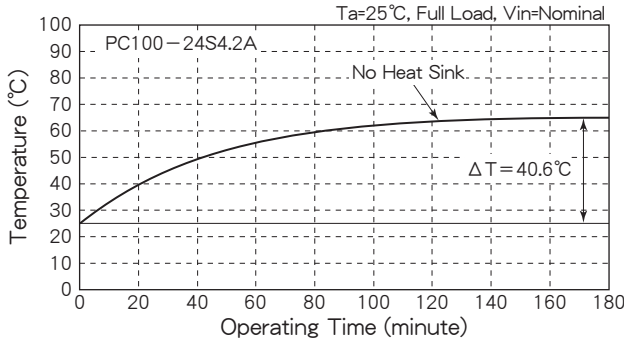


Fig. 4 Efficiency vs. Output Current

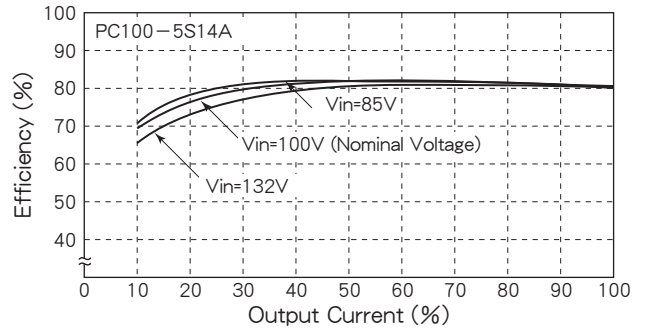


Fig. 5 Efficiency vs. Output Current

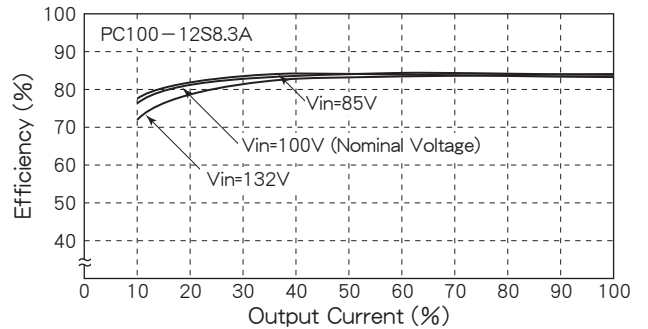


Fig. 6 Efficiency vs. Output Current

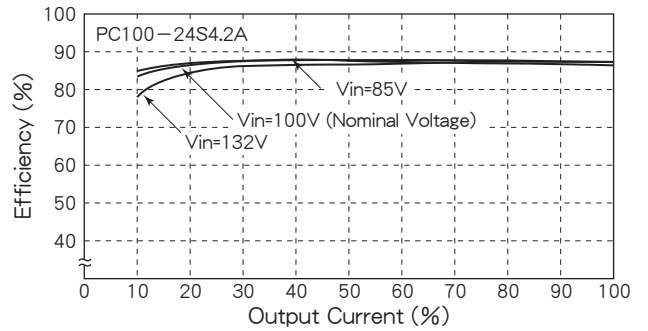


Fig. 7 Efficiency vs. Output Current

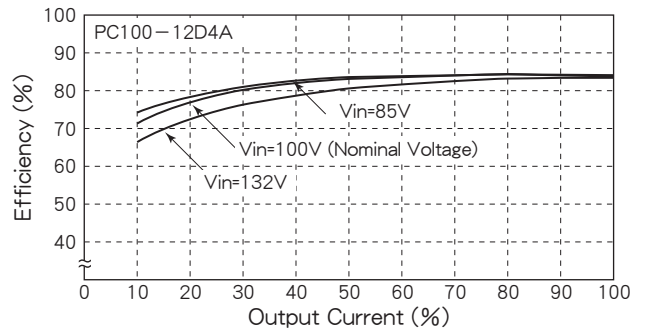


Fig. 8 Efficiency vs. Output Current

