

# PC SERIES

## 70~100W AC-DC スイッチング電源 Single Output & Dual Outputs



H35×W70×L158 (mm)

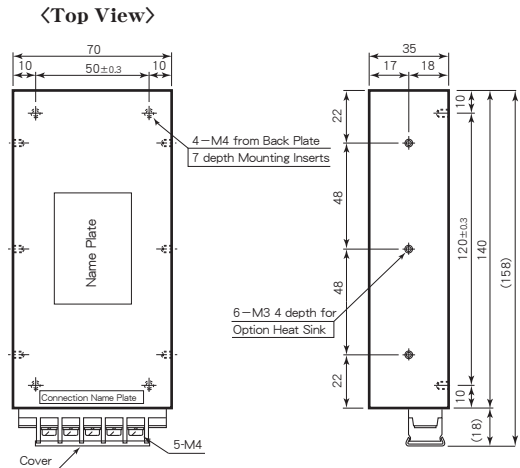
### Features

- |   |                            |
|---|----------------------------|
| ● 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 | ● シヤーシヤ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 クラスB<br>FCC クラスB 準拠 |
| ● Conformity to RoHS2 Directive                       | ● RoHS2指令対応                |

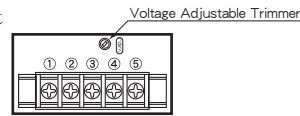
### General Characteristics

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

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



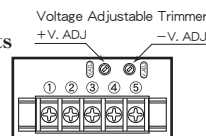
#### Single Output



#### Terminal Outs

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

#### Dual Outputs

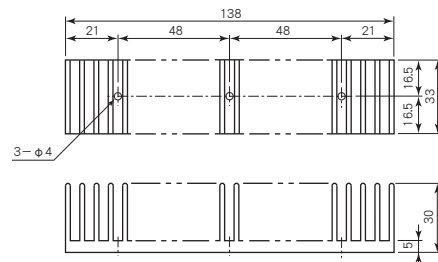


#### Terminal Outs

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

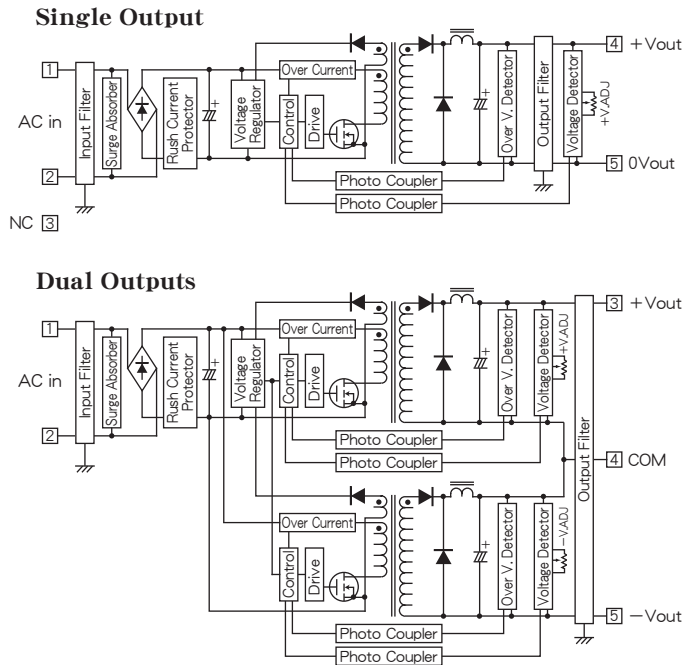
### Selection Guide

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



## Characteristic Curves

Fig. 1 Derating Curve

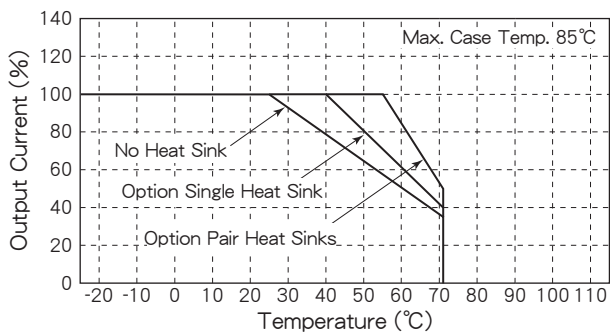


Fig. 2 Short Circuit Operating Area

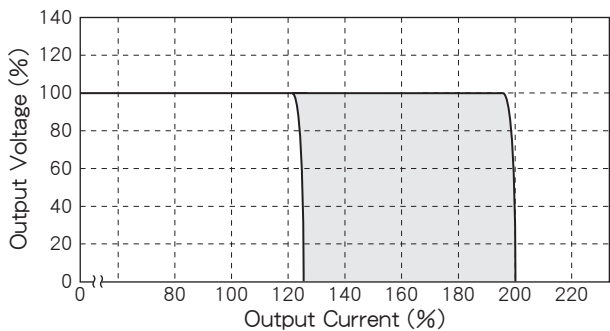


Fig. 3 Temperature Characteristic on Case Surface

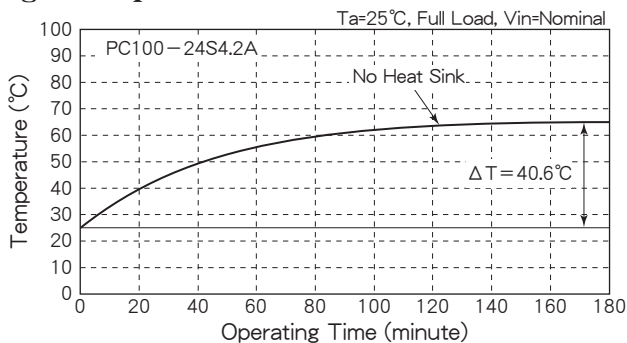


Fig. 4 Efficiency vs. Output Current

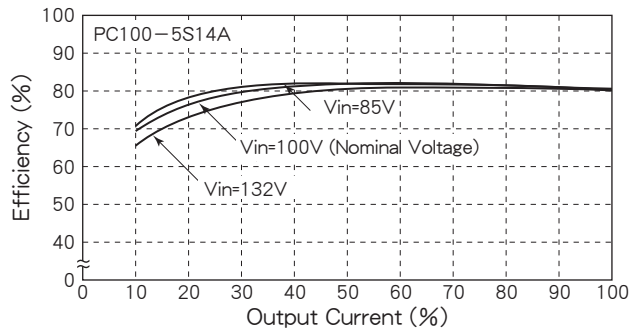


Fig. 5 Efficiency vs. Output Current

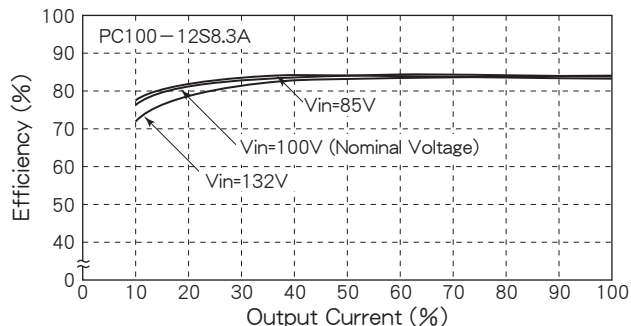


Fig. 6 Efficiency vs. Output Current

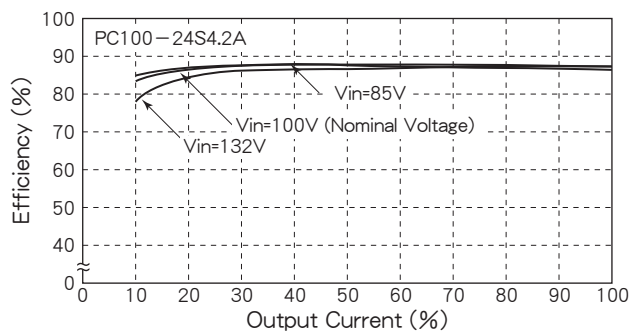


Fig. 7 Efficiency vs. Output Current

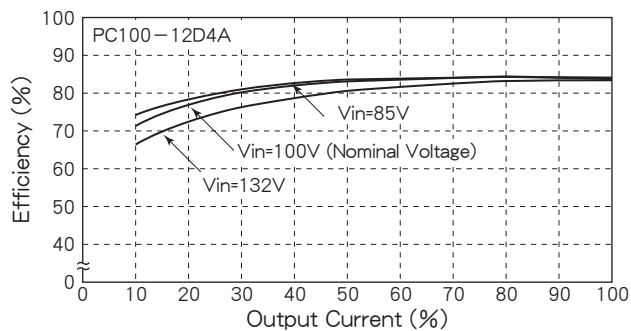


Fig. 8 Efficiency vs. Output Current

