

PC SERIES

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



H35×W70×L158 (mm)

Features

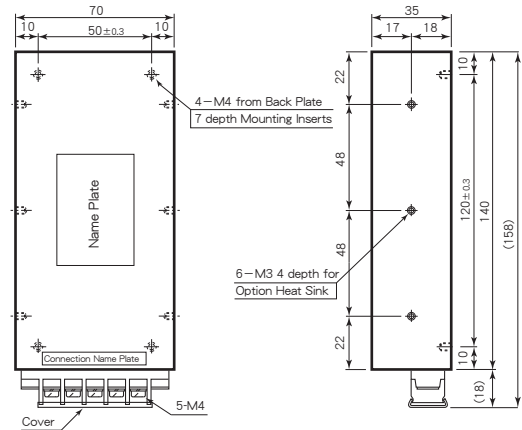
- | | |
|---|--------------------------------|
| ● Input-Output Isolation | ● 入出力間絶縁 |
| ● Completely Molding Device | ● 完全モールド製品 |
| ● High Efficiency 80~87% | ● 高効率 80~87% |
| ● Long Life by Mounting on Chassis or Using Heat Sink | ● シャーシや放熱板への取付けにより長寿命化 |
| ● Input Rush Current Protection | ● 入力突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

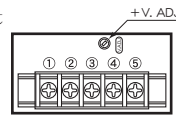
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|-----------------------------|--|
| ● Input Voltage, Range | (at Ta : 25°C, Full Load, Nominal Vin) |
| ● Input Frequency | AC100, 200V (See Table 1) |
| ● Output Voltage, Current | 47~440Hz |
| ● Output Voltage Adjustment | See Table 1 |
| | Single : ±5% |
| | Dual : ±5% |
| ● Efficiency | See Table 1 |
| ● Line Regulation | 0.1% max. (at Vin Range) |
| ● Load Regulation | 0.5% max. |
| | 1% max. (5V Vout only) |
| | (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 |
| | (Input-Output-Case) |
| ● Isolation Impedance | 100MΩ min. (at DC1000V) |
| | (Input-Output-Case) |
| ● Weight | Main Body : 800g max. |
| | Pair Heat Sinks : 250g max. |
| ● Humidity | 20~95% RH |
| ● Shock | 196m/s ² (11msec 3directions) |
| ● Vibration | 10~55Hz 49m/s ² |
| | (30minutes 3directions) |
| ● EMI | VCCI Class B, FCC Class B |
| ● Surface Structure | Aluminum Case |
| ● MTBF | Single : 110,000H |
| | Dual : 90,000H |
| | (Ta : 25°C, 80% Load, Nominal Vin) |
| ● Warranty | 5 years |

Terminal Outs & Dimensions (±0.5mm)

<Top View>



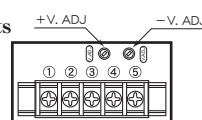
Single Output



Terminal Outs

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

Dual Outputs

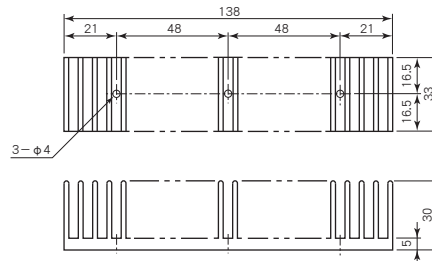


Terminal Outs

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

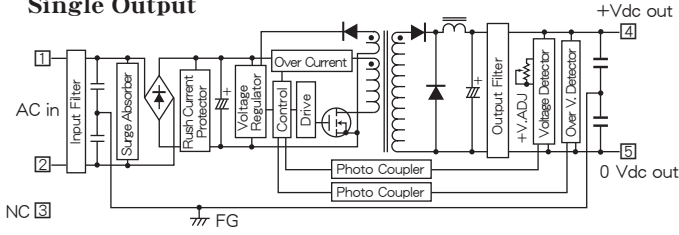
Table 1

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	

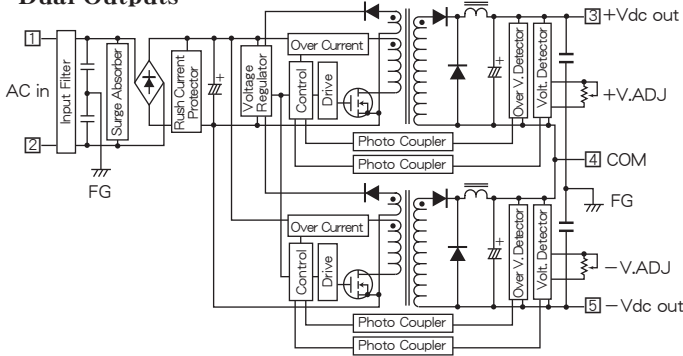
PC SERIES DATA SHEET

Block Diagram

Single Output



Dual Outputs



Characteristic Curves

Fig. 1 Derating Curve

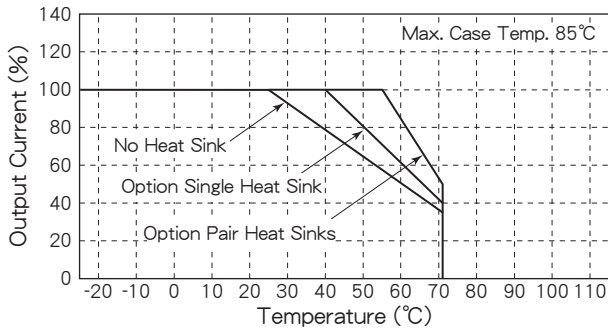


Fig. 2 Short Circuit Operating Area

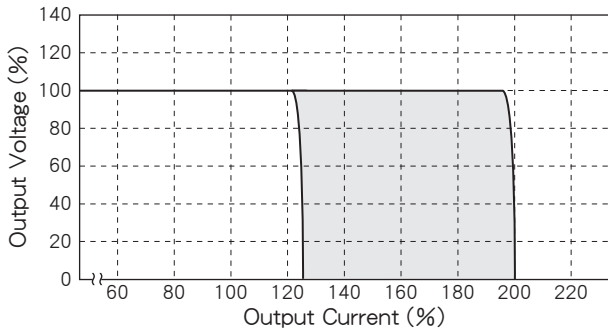


Fig. 3 Temperature Characteristic on Case Surface

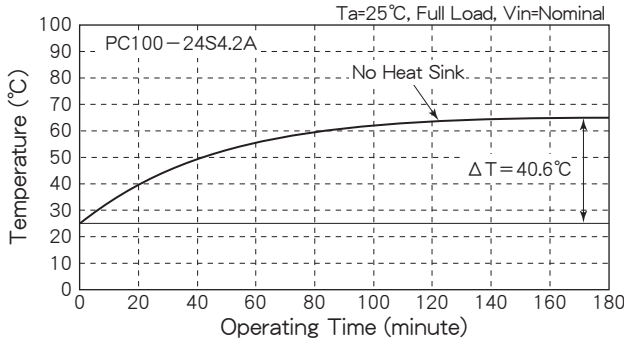


Fig. 4 Efficiency vs. Output Current

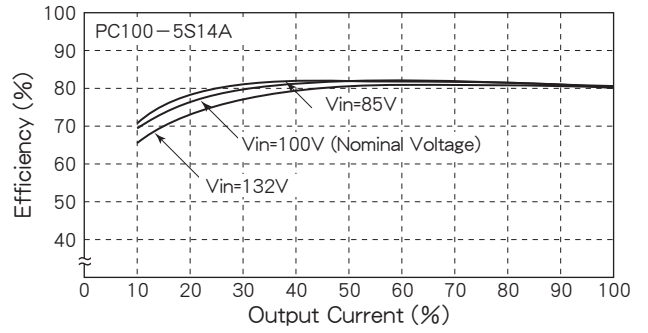


Fig. 5 Efficiency vs. Output Current

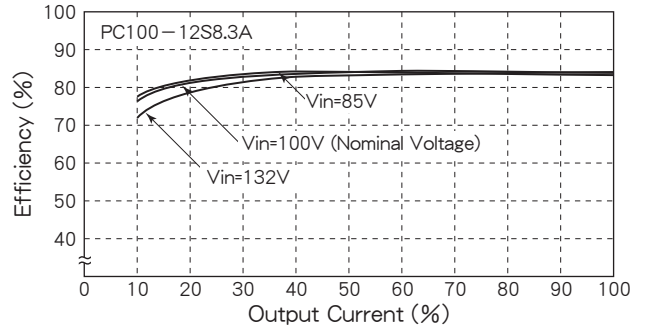


Fig. 6 Efficiency vs. Output Current

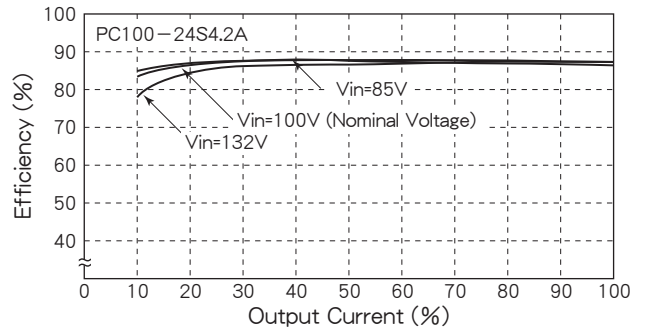


Fig. 7 Efficiency vs. Output Current

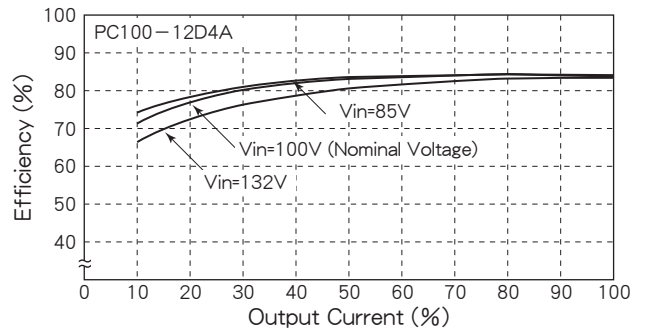


Fig. 8 Efficiency vs. Output Current

