

KC SERIES KCW SERIES

50W 36W(Wide Input Voltage Range)

AC/DC CONVERTERS



H30×W60×L132 (mm)

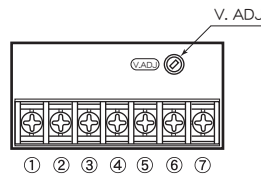
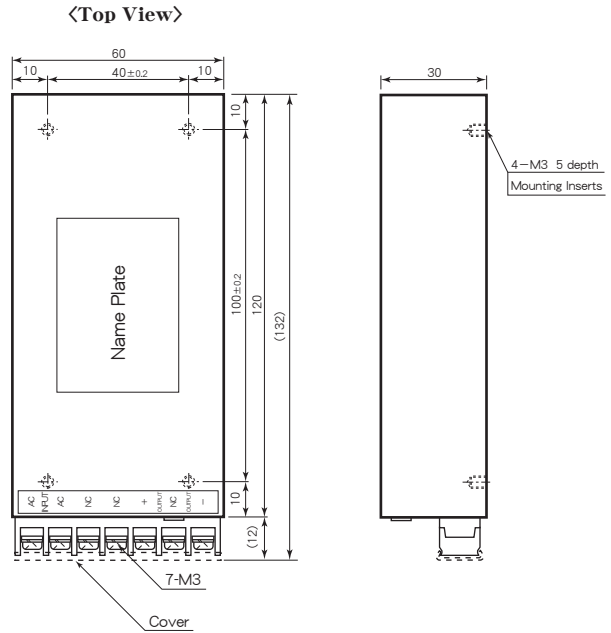
Features

- Wide Input Voltage Range (KCW) AC85~264V
- Improved Power Factor
- Output Over Voltage Protection
- High Efficiency 83~88%
- Input-Output Isolation (AC1500V)
- Operating Ambient Temperature -25°C~+71°C
- Adjustable Output Volt. ±5%
- Conformity to VCCI Class B
- Conformity to RoHS Directive
- ワイド入力電圧 (KCW) AC85~264V
- 力率改善回路内蔵
- 出力過電圧保護回路内蔵
- 高効率 83~88%
- 入出力間絶縁 (AC1500V)
- 動作周囲温度 -25°C~+71°C
- 出力電圧調整可能 ±5%
- VCCI クラスB 準拠
- RoHS指令対応

General Characteristics

- Input Voltage, Range (at Ta : 25°C, Full Load, Nominal Vin)
 KC : AC100V (85~132V)
 AC200V (175~264V)
 KCW : AC160V (85~264V)
- Input Frequency 47~440Hz
- Power Factor 0.80 typ. (Vin : 50, 60Hz)
 0.65 typ. (Vin : 400Hz)
- Output Voltage, Current See Table 1
- Output Voltage Adjustment ±5%
- Efficiency See Table 1
- Line Regulation 0.1% max. (at Vin Range)
- Load Regulation 0.5% max.
 1.5% max. (5V Vout only)
 (0~100% Load)
- Output Ripple (0.1% Vout+40mV) p-p max. (Vin : 50, 60Hz)
 (1% Vout+40mV) p-p max. (Vin : 400Hz)
- Output Noise (0.5% Vout+50mV) p-p max. (Vin : 50, 60Hz)
 (1.5% Vout+50mV) p-p max. (Vin : 400Hz)
- 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 AC1500V one minute
 (Input-Output-Case)
- Isolation Impedance 100MΩ min. (at DC1000V)
 (Input-Output-Case)
- Weight 550g max.
- Humidity 20~95% RH
- Shock 490m/s² (11msec 3directions)
- Vibration 10~55Hz 98m/s²
 (30minutes 3directions)
- Surface Structure Aluminum Case
- MTBF 110,000H
 (Ta : 25°C, 80% Load, Nominal Vin)
- Warranty 5 years

Terminal Outs & Dimensions (±0.5mm)



Terminal Outs

①	AC in
②	AC in
③	No Connection
④	No Connection
⑤	+Vdc out
⑥	No Connection
⑦	-Vdc out

Selection Guide

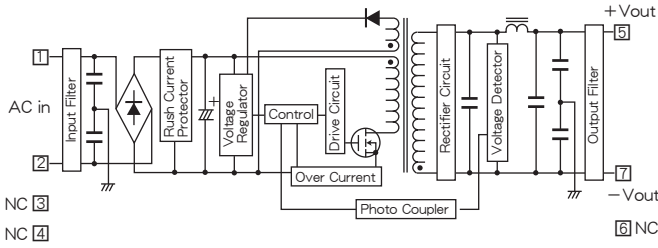
Table 1

Model Number	Input Volt. (Range) (V. AC)	Output Voltage (V. DC)	Output Current (A)	Efficiency 80% Load (%) (typ.)
KC100-5S 10A	100 (85~132)	5	10	85
KC100-12S 4.2A		12	4.2	87
KC100-15S 3.3A		15	3.3	88
KC100-24S 2.1A		24	2.1	88
KC200-5S10A	200 (175~264)	5	10	85
KC200-12S 4.2A		12	4.2	87
KC200-15S 3.3A		15	3.3	88
KC200-24S 2.1A	160 (85~264)	24	2.1	88
KCW160-5S 7A		5	7	83
KCW160-12S 3A		12	3	85
KCW160-15S 2.4A		15	2.4	86
KCW160-24S 1.5A		24	1.5	86

※ 上記仕様以外にも対応可能ですので お問い合わせ下さい。
 Please consult with us about other specification.

KC/KCW SERIES DATA SHEET

Block Diagram



Characteristic Curves

Fig. 1 Derating Curve

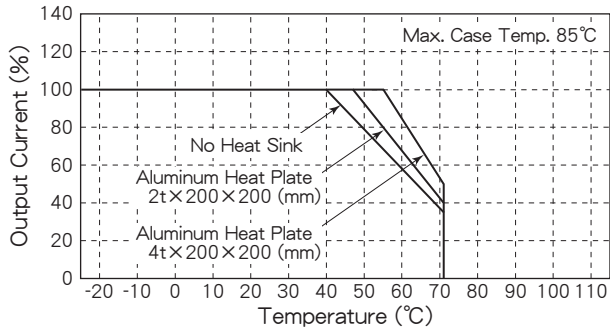


Fig. 2 Short Circuit Operating Area

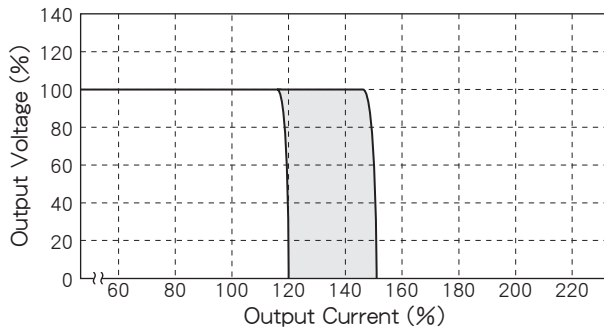


Fig. 3 Efficiency vs. Output Current

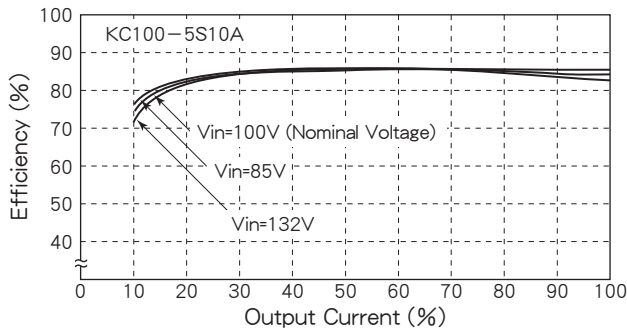


Fig. 4 Efficiency vs. Output Current

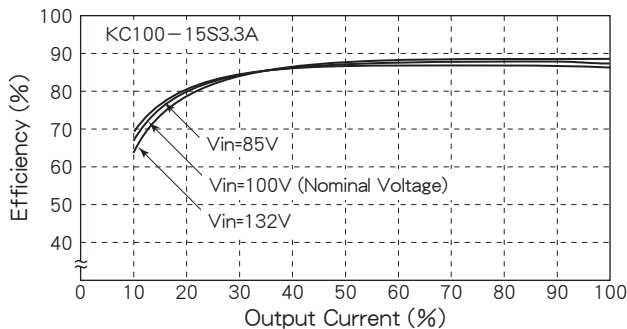


Fig. 5 Efficiency vs. Output Current

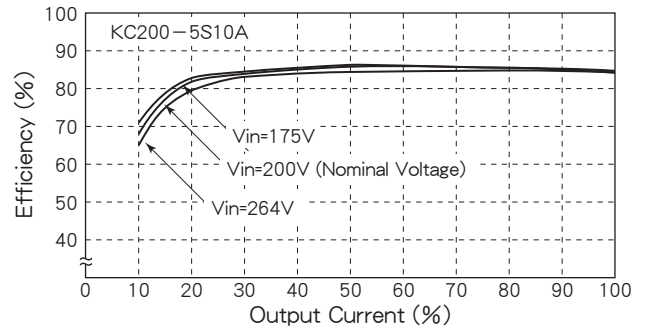


Fig. 6 Efficiency vs. Output Current

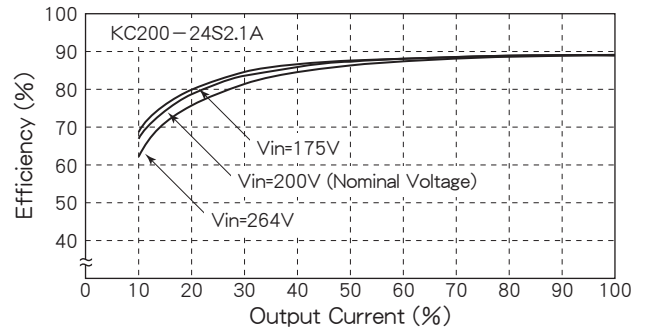


Fig. 7 Efficiency vs. Output Current

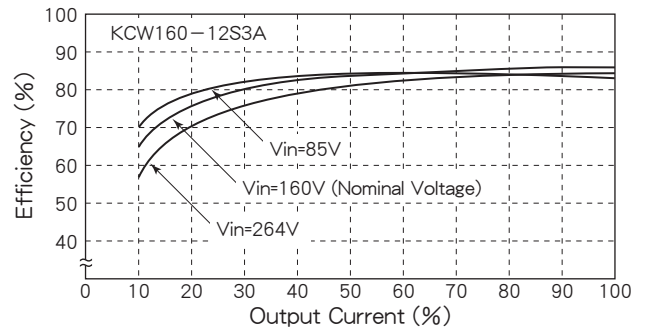


Fig. 8 Efficiency vs. Output Current

