

MC SERIES

24~30W AC-DC スイッチング電源



H20×W50×L90 (mm)

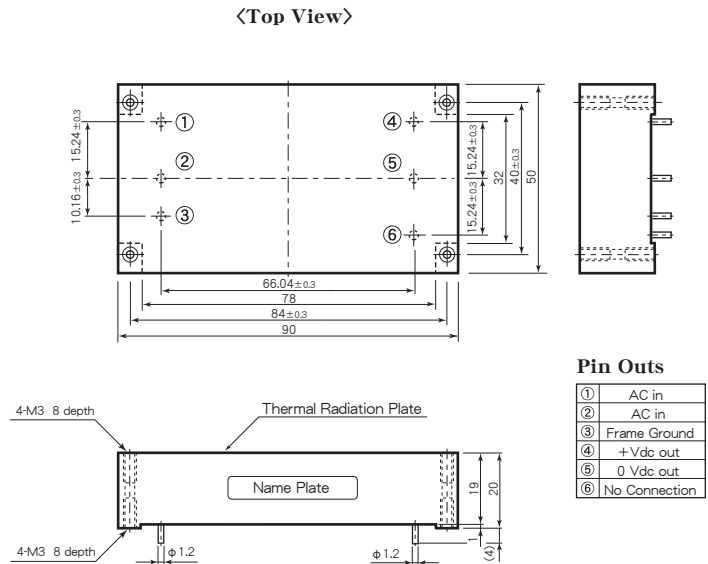
Features

- Low Profile 20mm
- Input-Output Isolation (AC2000V)
- High Efficiency 84~85%
- Completely Molding Device
- 6 Sided Metal Shielding
- Output Over Voltage Protection
- Thermal Protection
+90°C~+100°C
- Operating Ambient Temperature
-30°C~+71°C
- VCCI Class B
- Conformity to RoHS2 Directive
- 薄型 20mm
- 入出力間絶縁 (AC2000V)
- 高効率 84~85%
- 完全モールド製品
- 6面メタルシールド
- 出力過電圧保護回路内蔵
- 過熱保護回路内蔵
+90°C~+100°C
- 動作周囲温度
-30°C~+71°C
- VCCI クラスB 準拠
- RoHS2指令対応

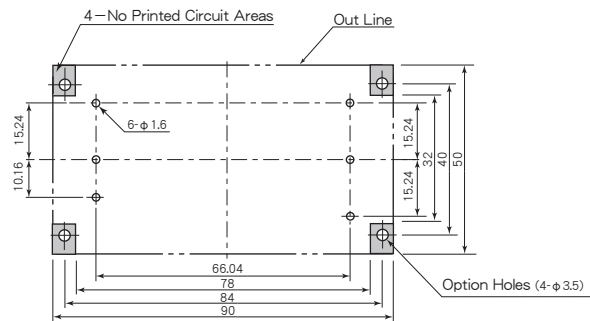
General Characteristics

- Input Voltage, Range
 - Input Frequency
 - Output Voltage, Current
 - Output Voltage Accuracy
 - Efficiency
 - Line Regulation
 - Load Regulation
 - Output Ripple
 - Output Noise
 - Short Circuit Protection
 - Over Voltage Protection
 - Temperature Coefficient
 - Operating Ambient Temp.
 - Max. Case Temperature
 - Storage Temperature
 - Isolation Voltage
 - Isolation Impedance
 - Weight
 - Humidity
 - Shock
 - Vibration
 - Surface Structure
 - Soldering Conditions
 - MTBF
 - Warranty
- (at Ta : 25°C, Full Load, Nominal Vin)
AC100V (See Table 1)
- 47~440Hz
- See Table 1
- ±2%
- ±3% (3.3, 5V Vout only)
- See Table 1
- ±0.5% max. (at Vin Range)
- ±0.5% max. (0~100% Load)
- (0.2% Vout+40mV) p-p max.
- (0.5% Vout+50mV) p-p max.
- Built-in, Auto-restart (See Fig. 2)
- 115~140% Output Voltage
- 0.02%/°C max.
- 30°C~+71°C (See Fig. 1)
- +85°C
- 40°C~+85°C
- AC2000V one minute
(Input-Output-Case)
- 100MΩ min. (at DC1000V)
(Input-Output-Case)
- 200g max.
- 20~95% RH
- 490m/s² (11msec 3directions)
- 10~55Hz 98m/s²
(30minutes 3directions)
- 6 Sided Aluminum Case
- 360°C, for 5 seconds max.
- 130,000H
(Ta : 25°C, 80% Load, Nominal Vin)
- 5 years

Pin Outs & Dimensions (±0.5mm)



Hole Configurations on PCB (Top View)



Selection Guide

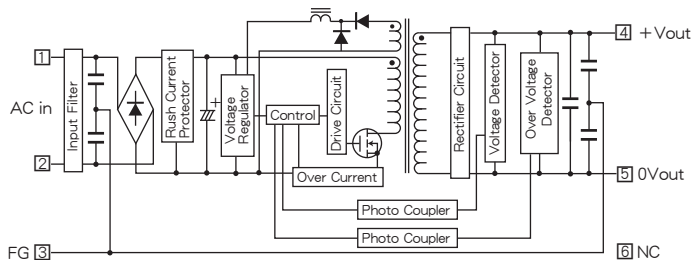
Table 1

| Model Number | Input Volt. (Range) (V. AC) | Output Voltage (V. DC) | Output Current (A) | Efficiency (Typical)(%) | |
|---------------------|-----------------------------|------------------------|--------------------|-------------------------|----------|
| | | | | 20% Load | 80% Load |
| MC100 - 3.3 S 7.2 A | 100 (85~132) | 3.3 | 7.2 | 75 | 84 |
| MC100 - 5 S 6 A | | 5 | 6 | 75 | 85 |
| MC100 - 12 S 2.6 A | | 12 | 2.6 | 75 | 85 |
| MC100 - 15 S 2 A | | 15 | 2 | 75 | 85 |
| MC100 - 24 S 1.3 A | | 24 | 1.3 | 75 | 85 |

* 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.

MC SERIES DATA SHEET

Block Diagram



Characteristic Curves

Fig. 1 Derating Curve

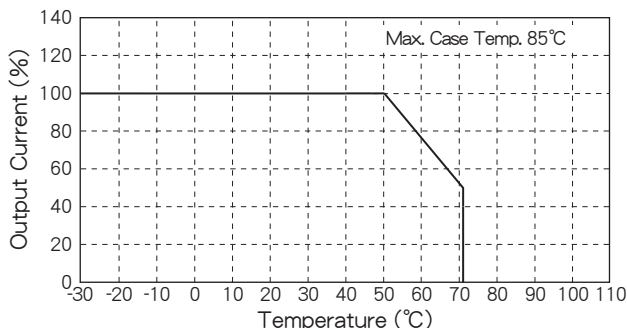


Fig. 2 Short Circuit Operating Area

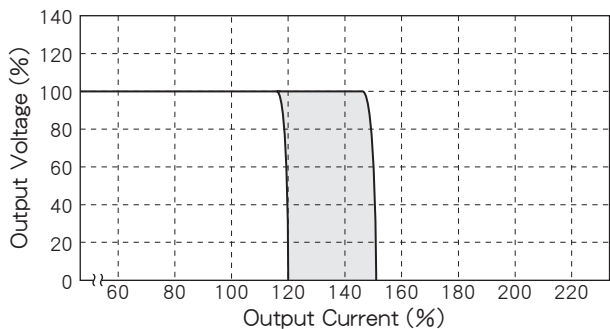


Fig. 3 Temperature Characteristic on Case Surface

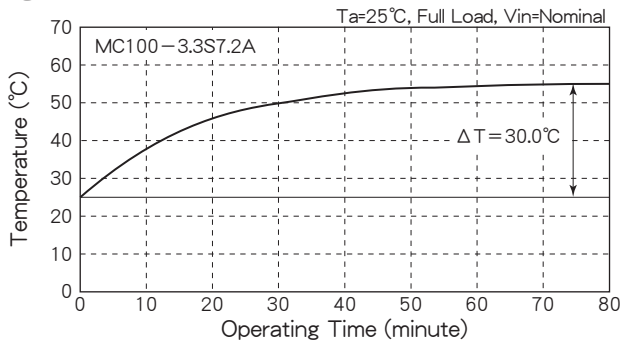


Fig. 4 Efficiency vs. Output Current

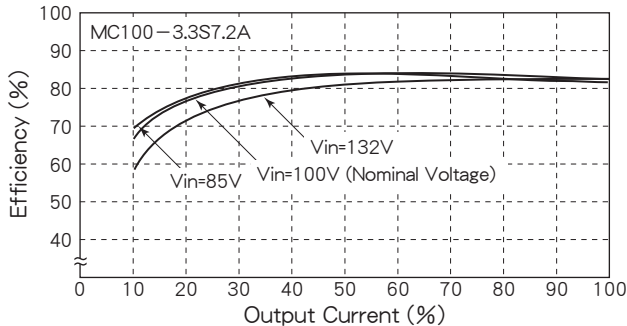


Fig. 5 Efficiency vs. Output Current

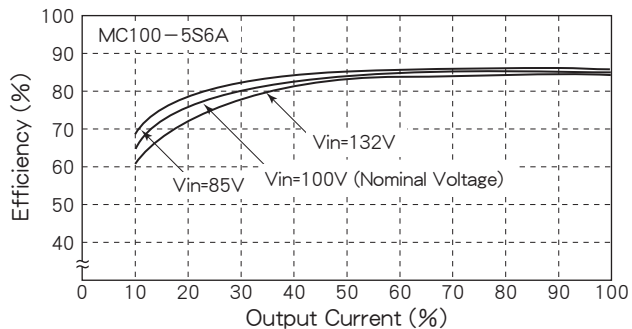


Fig. 6 Efficiency vs. Output Current

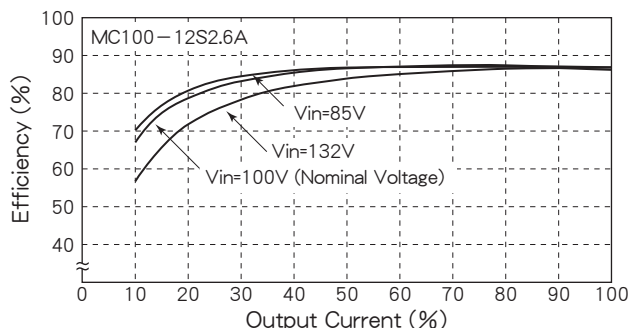


Fig. 7 Efficiency vs. Output Current

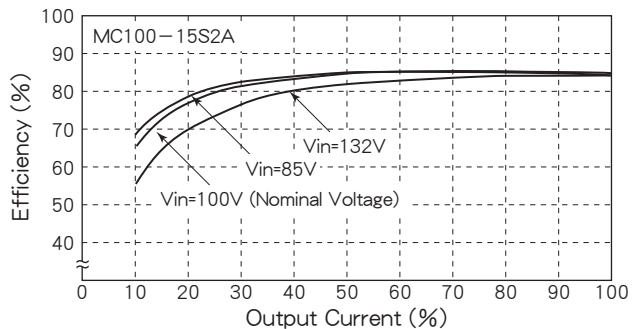


Fig. 8 Efficiency vs. Output Current

