

# MC SERIES

## 24~30W AC/DC CONVERTERS Single Output



H20×W50×L90 (mm)

### Features

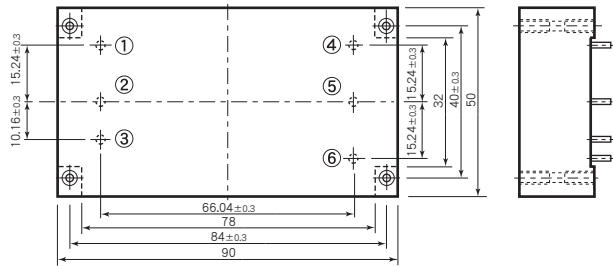
- Low Profile 20mm
- Input-Output Isolation (AC2000V)
- High Efficiency 84~85%
- Completely Molding Device
- 6 Sided Metal Shielding
- Output Over Voltage Protection
- Thermal Protection  
+90°C~+100°C
- Operating Ambient Temperature  
-30°C~+71°C
- VCCI Class B
- Conformity to RoHS Directive
- 薄型 20mm
- 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
- RoHS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/s<sup>2</sup> (11msec 3directions)  
10~55Hz 98m/s<sup>2</sup>  
(30minutes 3directions)  
6 Sided Aluminum Case  
360°C, for 5 seconds max.  
130,000H  
(Ta : 25°C, 80% Load, Nominal Vin)  
5 years

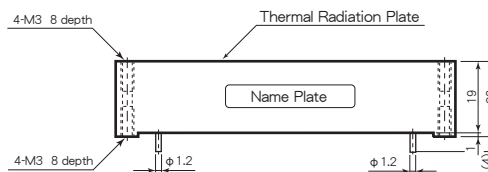
### Pin Outs & Dimensions (±0.5mm)

<Top View>

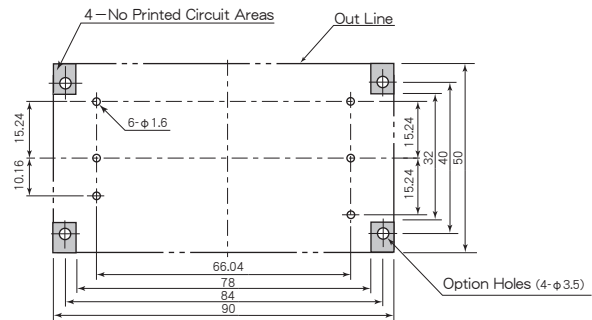


#### Pin Outs

①	AC in
②	AC in
③	Frame Ground
④	+Vdc out
⑤	0 Vdc out
⑥	No Connection



### Hole Configurations on PCB (Top View)



### Selection Guide

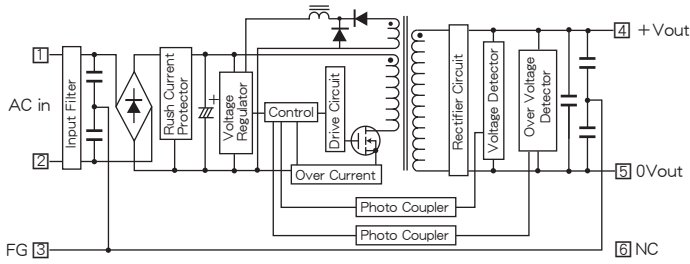
Table 1

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

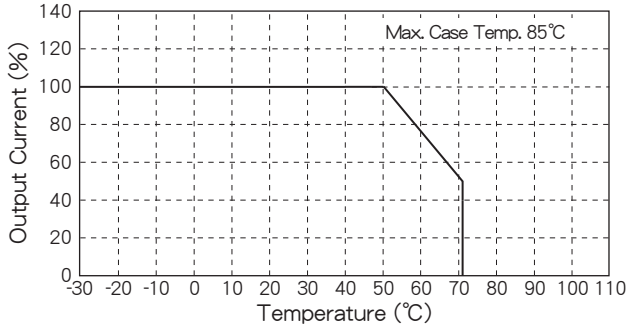


Fig. 2 Short Circuit Operating Area

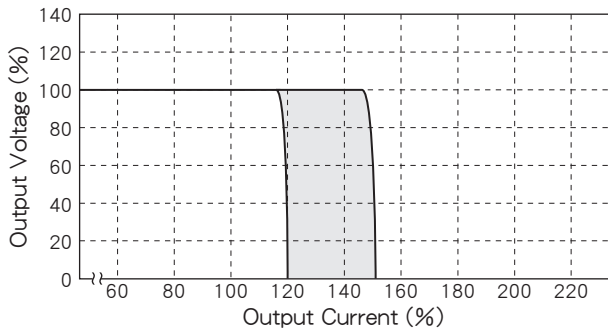


Fig. 3 Temperature Characteristic on Case Surface

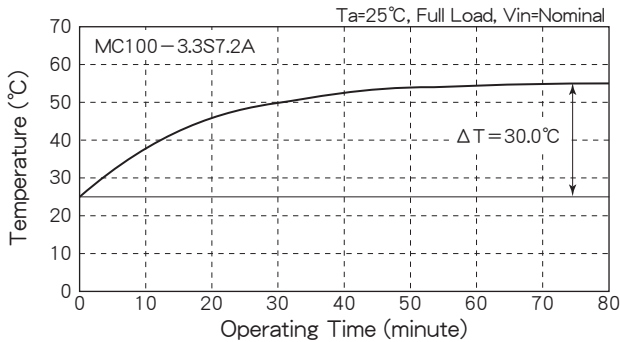


Fig. 4 Efficiency vs. Output Current

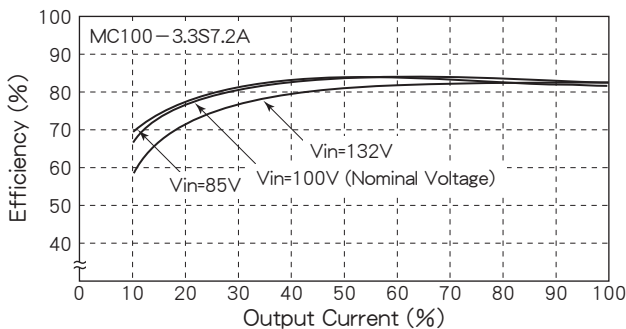


Fig. 5 Efficiency vs. Output Current

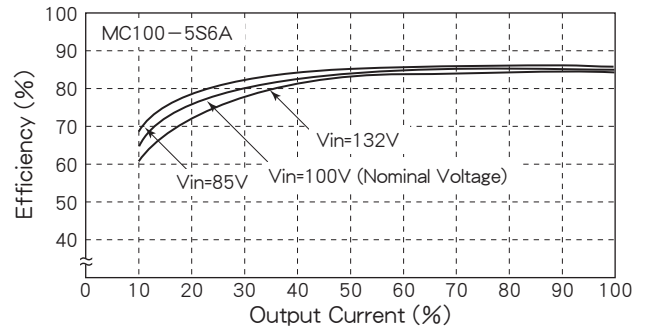


Fig. 6 Efficiency vs. Output Current

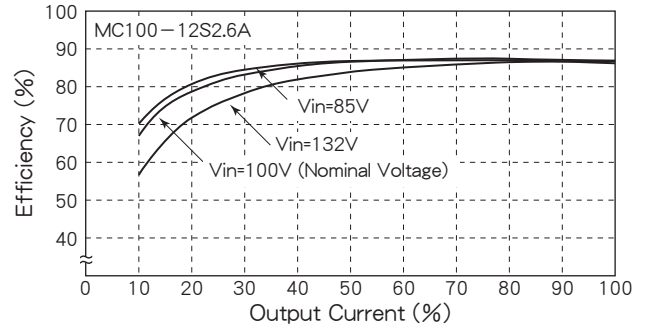


Fig. 7 Efficiency vs. Output Current

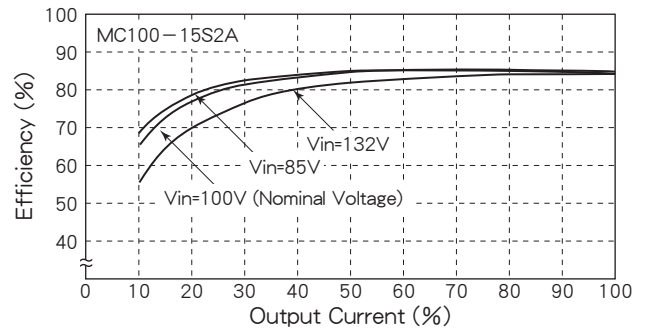


Fig. 8 Efficiency vs. Output Current

