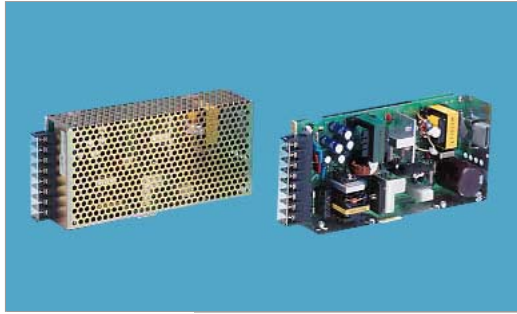


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## MMC100A



 **RoHS**

### Features

- V1 isolated from V2 and V3
- Full Regulated Output
- Built-in Inrush Current Protection
- Built-in Over Voltage Protection
- RoHS Compliant

### Safety Agency Approvals

- Complies with DEN-AN
- UL1950, C-UL

### EMI Compliance

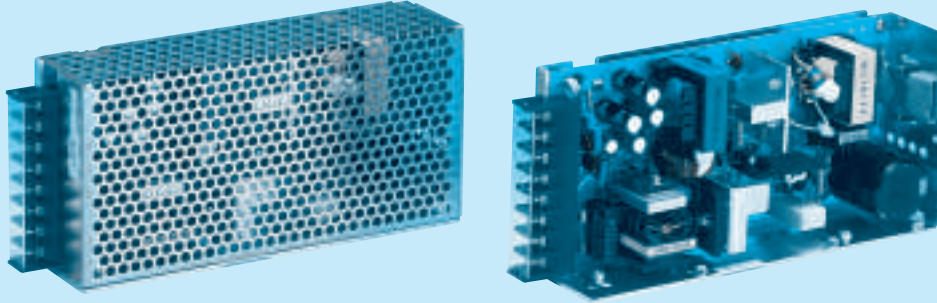
- MMC8A : FCC-B
- MMC50A, 75A, 100A : FCC-A

**2 year warranty(refer to Instruction Manual)**

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
MMC100A-1	DC 110 - 170 AC 85 - 132	101	-12 - 12V 1 - 13A
MMC100A-2	DC 110 - 170 AC 85 - 132	102.5	-15 - 15V 1 - 13A
MMC100A-3	DC 110 - 170 AC 85 - 132	94	-5 - 12V 1 - 13A
MMC100A-4	DC 110 - 170 AC 85 - 132	100	-12 - 12V 1 - 8A

- ① Series name
- ② Output wattage
- ③ Output voltage combination
- ④ Optional
  - C : with Coating
  - G : Low leakage current
  - J : Connector type
  - N : with Cover

**RoHS**



RoHS : Please consult us for details

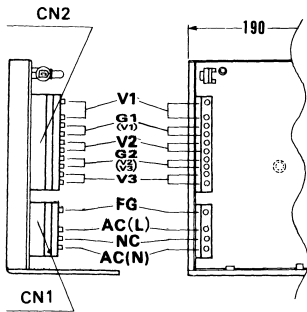
MODEL	MMC100A-1	MMC100A-2	MMC100A-3	MMC100A-4
DC OUTPUT	V1	+5V 13.0A	+5V 13.0A	+5V 13.0A
	V2	+12V 2.0A	+15V 1.5A	+12V 2.0A
	V3	-12V 1.0A	-15V 1.0A	-5V 1.0A

## SPECIFICATIONS

MODEL	MMC100A-1	MMC100A-2	MMC100A-3	MMC100A-4										
INPUT	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170											
	CURRENT[A]	ACIN 100V	2.8typ (Io=100%)											
	FREQUENCY[Hz]		47 - 440 or DC											
	EFFICIENCY[%]	ACIN 100V	75typ (Io=100%)											
	INRUSH CURRENT[A]	ACIN 100V	25typ (Io=100%)											
OUTPUT	VOLTAGE[V]	+5	+12	-12	+5	+15	-15	+5	+12	-5	+5	+12	-12	
	CURRENT[A]	13	2	1	13	1.5	1	13	2	1	8	4	1	
	MINIMUM CURRENT[A]	1.5	0	0	1.5	0	0	1.5	0	0	1.5	0	0	
	LINE REGULATION[mV]	20max	48max	48max	20max	60max	60max	20max	48max	20max	20max	48max	100max	
	LOAD REGULATION[mV]	40max	100max	150max	40max	120max	150max	40max	100max	100max	40max	100max	150max	
	RIPPLE[mVp-p]	*1	80max	120max	120max	80max	120max	120max	80max	120max	120max	80max	120max	120max
	RIPPLE NOISE[mVp-p]	*1	120max	150max	150max	120max	150max	150max	120max	150max	150max	120max	150max	150max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	120max	350max	50max	150max	350max	50max	120max	350max	50max	120max	350max
	START-UP TIME[ms]	200max (ACIN 85V, Io=100%)												
	HOLD-UP TIME[ms]	15typ (ACIN 85V, Io=100%)												
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically												
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating (+5V)												
ISOLATION	INPUT-CASE, OUTPUT	AC2.000V 1minute, DC500V 50MΩmin (At Room Temperature)												
	OUTPUT-CASE	AC500V 1minute, DC500V 50MΩmin (At Room Temperature)												
	OUTPUT-OUTPUT(V1-V2,V3)	AC100V 1minute, DC100V 10MΩmin (At Room Temperature)												
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	0 to +65°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max												
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max												
	VIBRATION	10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 30minutes each along X, Y and Z axis												
	IMPACT	196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis												
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL Complies with DEN-AN												
	CONDUCTED NOISE	Complies with FCC-A												

\*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).  
 \* When units are operated with chassis and cover, derating is required.  
 \* Avoid prolonged use under over-load.

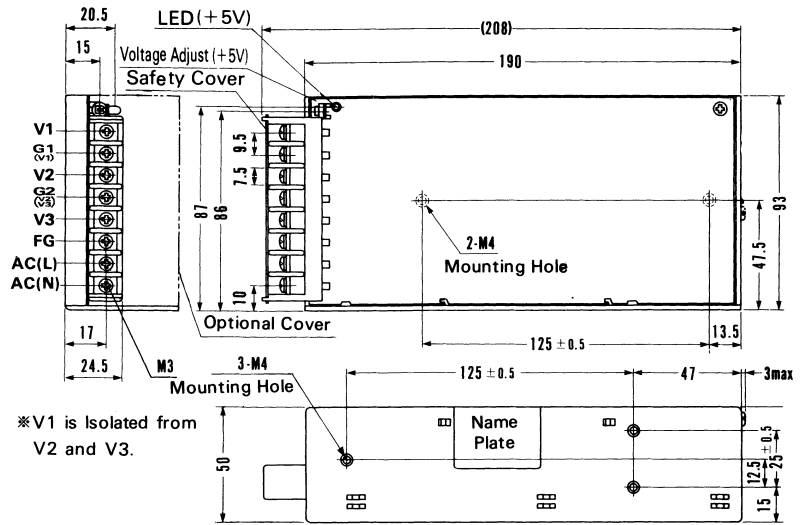
External view



I/O Connector	Mating Connector	Terminal
CN1	5289-4A	5199-04
CN2	5277-10A	5196-10

(Mfr: Molex)

Connector type



\*V1 is isolated from V2 and V3.

\*Mounting torque : 1.2N·m (12.8kgf·cm) max

\*Weight: 700g or less.

\*Cover is optional.

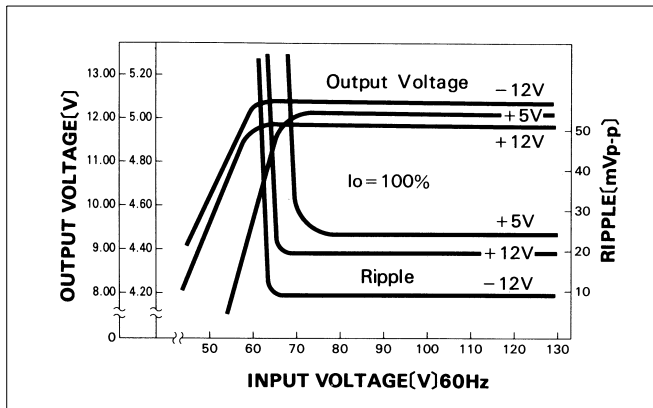
\*Tolerance: ± 1

\*Dimensions in mm.

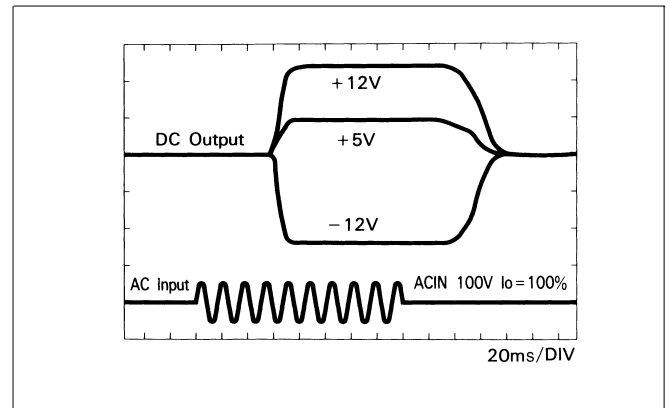
Barrier strip type

Performance data

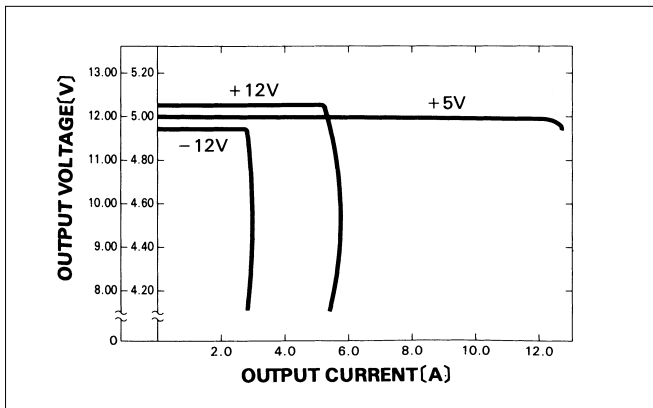
STATIC CHARACTERISTICS (MMC100A-4)



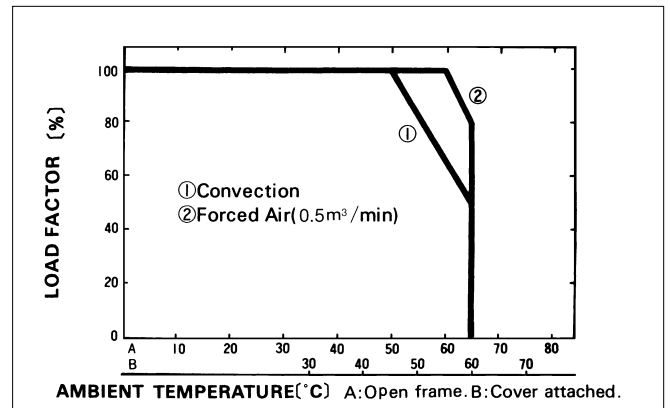
RISE TIME & FALL TIME (MMC100A-4)



OVERCURRENT CHARACTERISTICS (MMC100A-4)



DERATING CURVE



MMC