

[Home](#) > Product Details

## MMC8A



### 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

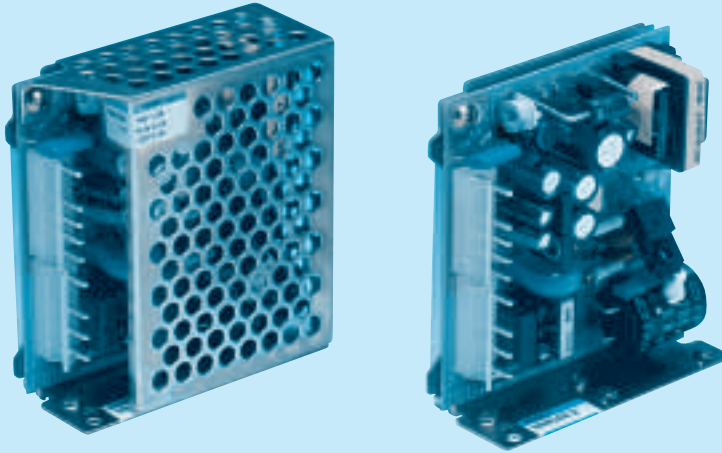
- MMC8A : FCC-B
- MMC50A, 75A, 100A : FCC-A

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

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
MMC8A-1	DC 110 - 170 AC 85 - 132	8.4	-12 - 12V 0.1 - 1.2A
MMC8A-2	DC 110 - 170 AC 85 - 132	8.5	-15 - 15V 0.1 - 1.1A
MMC8A-3	DC 110 - 170 AC 85 - 132	7.7	-5 - 12V 0.1 - 1.2A

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

**RoHS**



MMC

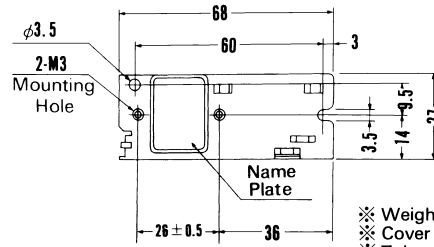
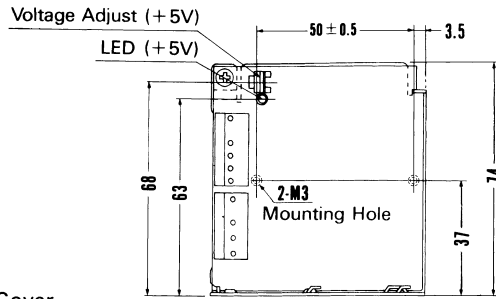
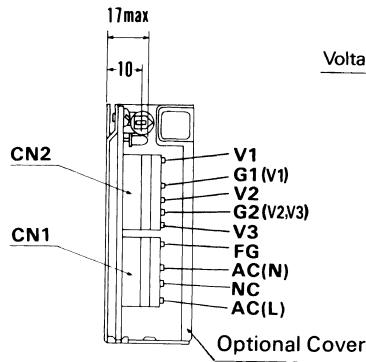
MODEL		MMC8A-1	MMC8A-2	MMC8A-3
DC OUTPUT	V1	+5V 1.2A	+5V 1.1A	+5V 1.2A
	V2	+12V 0.1A	+15V 0.1A	+12V 0.1A
	V3	-12V 0.1A	-15V 0.1A	-5V 0.1A

**SPECIFICATIONS**

	MODEL	MMC8A-1			MMC8A-2			MMC8A-3			
INPUT	VOLTAGE[V]	AC85 - 132 1 φ or DC110 - 170									
	CURRENT[A]	ACIN 100V	0.3typ (Io=100%)								
	FREQUENCY[Hz]	47 - 440 or DC									
	EFFICIENCY[%]	ACIN 100V	68typ (Io=100%)								
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%)								
OUTPUT	VOLTAGE[V]	+5	+12	-12	+5	+15	-15	+5	+12	-5	
	CURRENT[A]	1.2	0.1	0.1	1.1	0.1	0.1	1.2	0.1	0.1	
	MINIMUM CURRENT[A]	0	0	0	0	0	0	0	0	0	
	LINE REGULATION[mV]	20max	48max	48max	20max	60max	60max	20max	48max	20max	
	LOAD REGULATION[mV]	60max	120max	120max	60max	150max	150max	60max	120max	100max	
	RIPPLE[mVp-p]	*1	80max	120max	120max	80max	120max	120max	80max	120max	120max
	RIPPLE NOISE[mVp-p]	*1	120max	150max	150max	120max	150max	150max	120max	150max	150max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	350max	350max	50max	350max	350max	50max	350max	350max
	START-UP TIME[ms]	100max (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									
	ISOLATION	INPUT-CASE, OUTPUT	AC2.000V 1minute, DC500V 50MΩmin (At Room Temperature)								
ENVIRONMENT	OUTPUT-CASE	AC500V 1minute, DC500V 50MΩmin (At Room Temperature)									
	OUTPUT-OUTPUT(V1-V2,V3)	AC100V 1minute, DC100V 10MΩmin (At Room Temperature)									
SAFETY AND NOISE REGULATIONS	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	98.0m/s <sup>2</sup> (10G), 20ms, 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-B									

\*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



※V1 is Isolated from V2 and V3.

I/O Connector	Mating Connector	Terminal
CN1	5289-4A	5199-04
CN2	5277-05A	5196-05

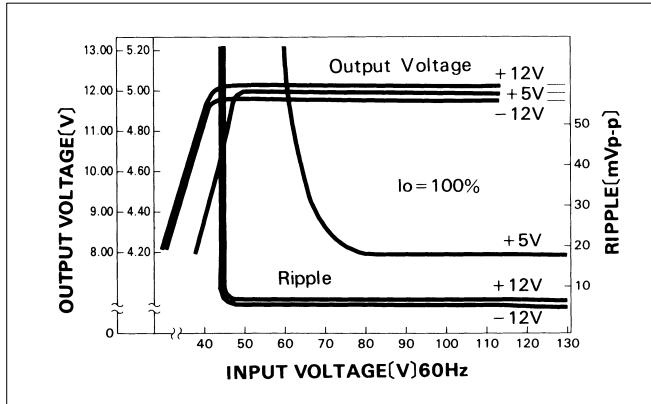
Chain : 5194PBT  
Loose : 5194PBTL  
(Mfr: Molex)

- ※ Weight: 150g or less
- ※ Cover is optional
- ※ Tolerance: ±1
- ※ Dimensions in mm.

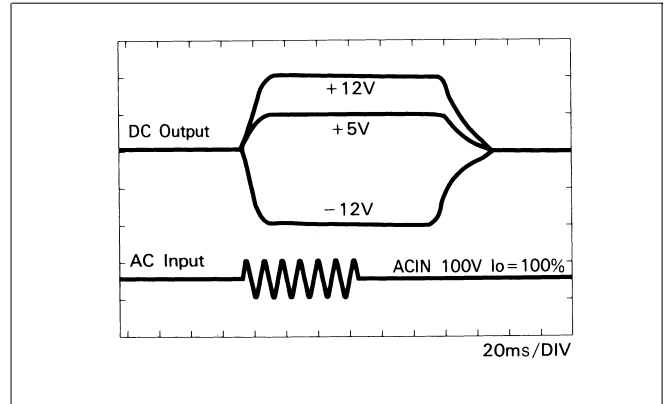
※ Mounting torque : 0.6N·m (6.3kgf·cm) max

Performance data

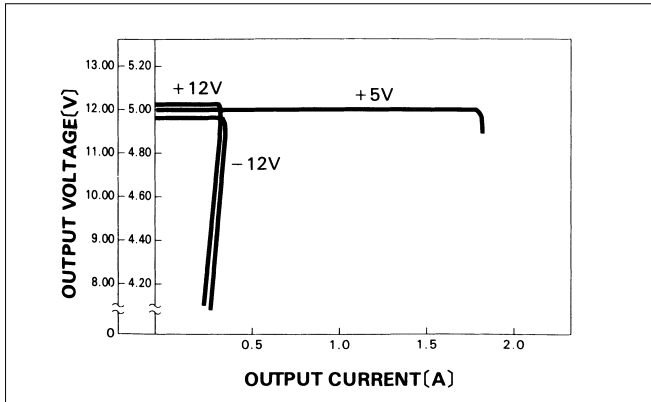
■ STATIC CHARACTERISTICS (MMC8A-1)



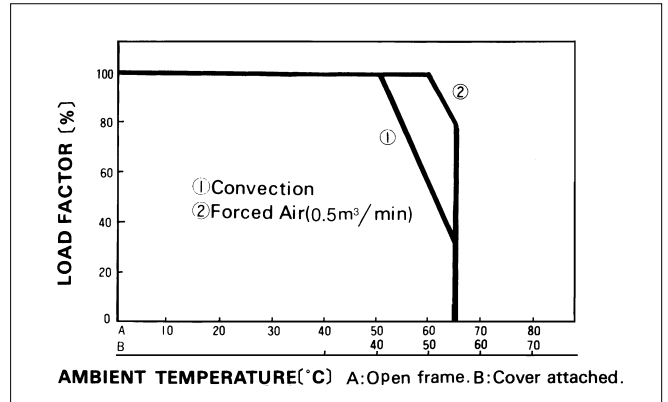
■ RISE TIME & FALL TIME (MMC8A-1)



■ OVERCURRENT CHARACTERISTICS (MMC8A-1)



■ DERATING CURVE



AMBIENT TEMPERATURE(°C) A: Open frame. B: Cover attached.