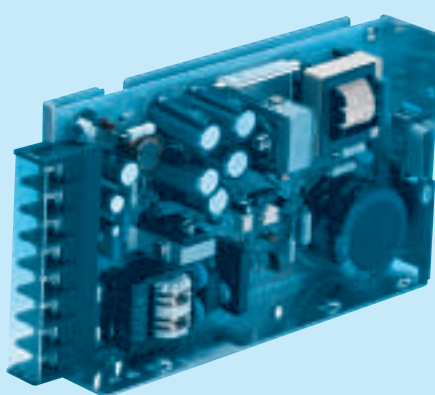
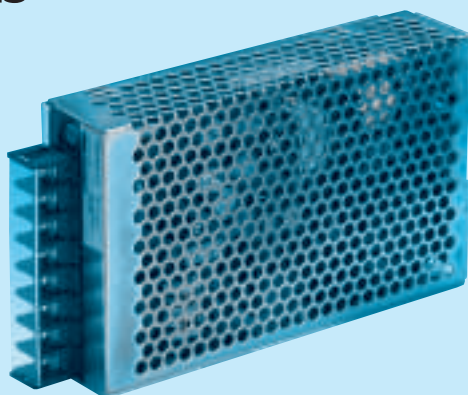




- ① Series name
 ② Output wattage
 ③ Output voltage combination
 ④ Optional
 C : with Coating
 G : Low leakage current
 J : Connector type
 N : with Cover

MMC

MODEL		MMC50A-1	MMC50A-2	MMC50A-3	MMC50A-4
DC OUTPUT	V1	+5V 5.0A	+5V 5.0A	+5V 5.0A	+5V 7.0A
	V2	+12V 1.5(Peak 2.0)A	+15V 1.2A	+12V 1.5(Peak 2.0)A	+12V 1.0(Peak 1.5)A
	V3	-12V 0.5A	-15V 0.5A	-5V 0.5A	-12V 0.3A

SPECIFICATIONS

	MODEL		MMC50A-1			MMC50A-2			MMC50A-3			MMC50A-4			
INPUT	VOLTAGE[V]		AC85 - 132 1 ϕ or DC110 - 170												
	CURRENT[A]	ACIN 100V	1.5typ (Io=100%)												
	FREQUENCY[Hz]		47 - 440 or DC												
	EFFICIENCY[%]	ACIN 100V	70typ (Io=100%)												
	INRUSH CURRENT[A]	ACIN 100V	30typ (Io=100%) (At cold start)												
OUTPUT	VOLTAGE[V]		+5	+12	-12	+5	+15	-15	+5	+12	-5	+5	+12	-12	
	CURRENT[A]	*1	5	1.5 (Peak2)	0.5	5	1.2	0.5	5	1.5 (Peak2)	0.5	7	1 (Peak1.5)	0.3	
	MINIMUM CURRENT[A]		0.75	0	0	0.75	0	0	0.75	0	0	0.75	0	0	
	LINE REGULATION[mV]		20max	48max	100max	20max	60max	60max	20max	48max	20max	20max	48max	48max	
	LOAD REGULATION[mV]		40max	150max	150max	40max	150max	150max	40max	150max	100max	40max	150max	150max	
	RIPPLE[mVp-p]		*2	80max	120max	120max	80max	120max	120max	80max	120max	120max	80max	120max	120max
	RIPPLE NOISE[mVp-p]		*2	120max	150max	150max	120max	150max	150max	120max	150max	150max	120max	150max	150max
	TEMPERATURE REGULATION[mV]		0 to +50℃	50max	350max	350max	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 (V2 works at peak current) 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℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max												
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max												
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 30minutes each along X, Y and Z axis												
SAFETY AND NOISE REGULATIONS	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis												
	AGENCY APPROVALS		UL60950-1, C-UL Complies with DEN-AN												
	CONDUCTED NOISE		Complies with FCC-A												

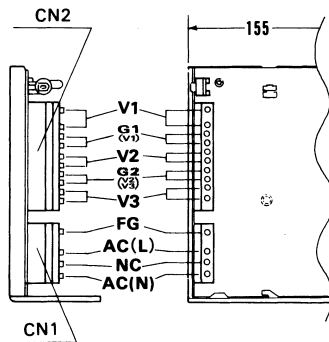
*1 Peak current for 30 seconds.

*2 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

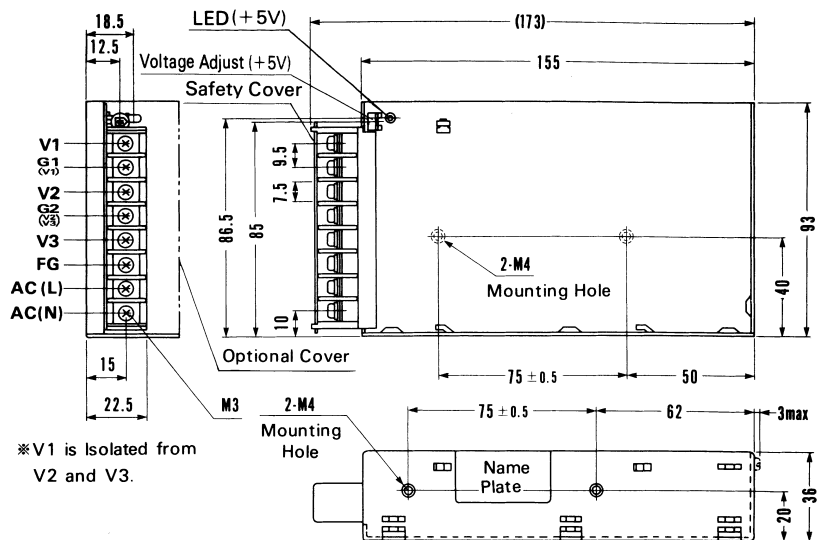
Chain : 5194PBT

Loose : 5194PBT

(Mfr: Molex)

※ Use J cover for connector type.

Connector type



※ V1 is isolated from V2 and V3.

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

Barrier strip type

※ Weight: 400g or less.

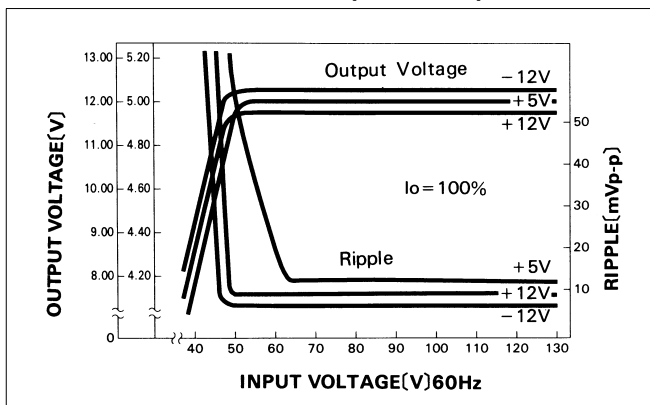
※ Cover is optional

※ Tolerance: ±1

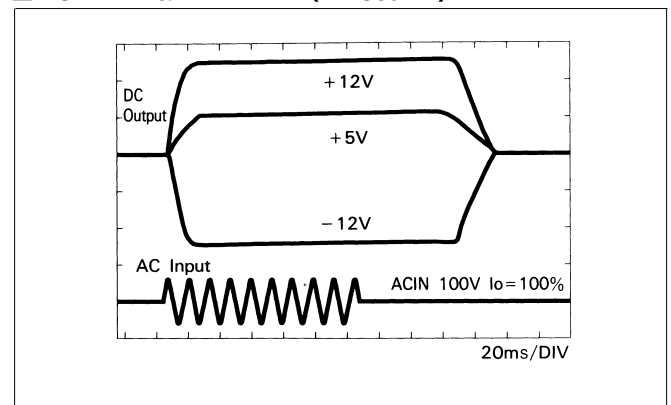
※ Dimensions in mm.

Performance data

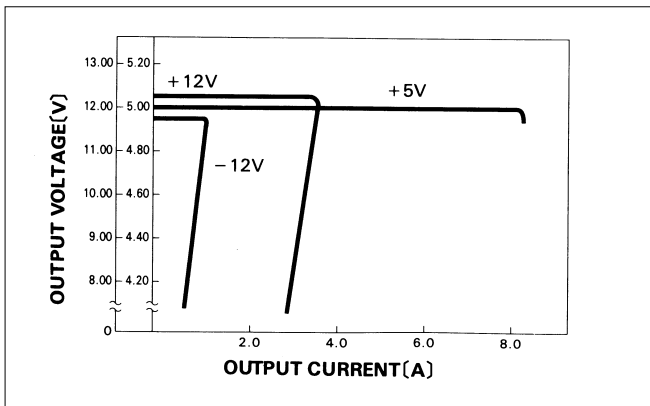
■ STATIC CHARACTERISTICS (MMC50A-1)



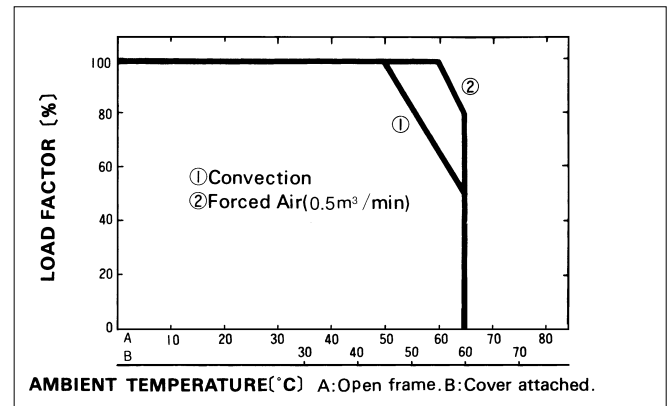
■ RISE TIME & FALL TIME (MMC50A-1)



■ OVERCURRENT CHARACTERISTICS (MMC50A-1)



■ DERATING CURVE



A: Open frame. B: Cover attached.