

COSEL

Unit type

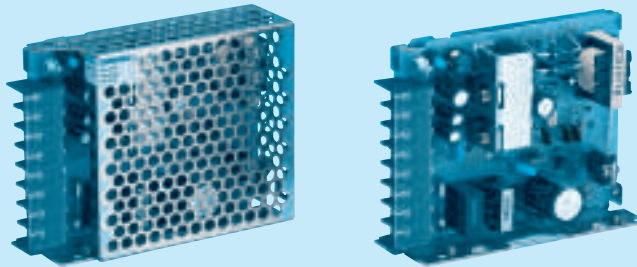
Ordering information

RMC15A

RMC 15A -1 -□

① ② ③ ④

c_{us}
RoHS



- 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

RMC

MODEL		RMC15A-1	RMC15A-2
DC OUTPUT	V1	+5V 2.0A	+5V 2.0A
	V2	+12V 0.3A	+15V 0.2A
	V3	-12V 0.2A	-15V 0.2A

SPECIFICATIONS

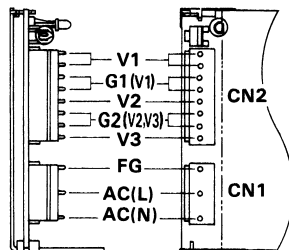
	MODEL	RMC15A-1			RMC15A-2			
INPUT	VOLTAGE[V]		AC85 - 132 1 ϕ or DC110 - 170					
	CURRENT[A]	ACIN 100V	0.45typ (Io=100%)					
	FREQUENCY[Hz]		47 - 440 or DC					
	EFFICIENCY[%]	ACIN 100V	65typ (Io=100%)					
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%) (At cold start)					
OUTPUT	VOLTAGE[V]		+5	+12	-12	+5	+15	-15
	CURRENT[A]		0 - 2.0	0 - 0.3	0 - 0.2	0 - 2.0	0 - 0.2	0 - 0.2
	LINE REGULATION[mV]		20max	48max	48max	20max	60max	60max
	LOAD REGULATION[mV]		100max	120max	120max	100max	150max	150max
	RIPPLE[mVp-p]	0 to +50°C *1	100max	120max	120max	100max	120max	120max
		-10 - 0°C *1	150max	160max	160max	150max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	150max	150max	120max	150max	150max
		-10 - 0°C *1	170max	180max	180max	170max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	350max	350max	50max	350max	350max
		-10 to +50°C	60max	420max	420max	60max	420max	420max
	START-UP TIME[ms]		100max (ACIN 85V, Io=100%)					
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%, 0 to +50°C) 20typ (ACIN 100V, Io=100%, 0 to +50°C)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		5.00 - 5.25	Fixed	Fixed	5.00 - 5.25	Fixed	Fixed
OUTPUT VOLTAGE SETTING[V]		——	11.40 to 12.60	-11.40 to -12.60	——	14.25 to 15.74	-14.25 to -15.75	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION		By zerer diode clamping (+5V only)					
	OPERATING INDICATION		LED (Green)					
ISOLATION	INPUT-OUTPUT		AC2,000V 1minute, DC500V 50M Ω min (At Room Temperature)					
	INPUT-FG, COVER		AC2,000V 1minute, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-FG, COVER		AC500V 1minute, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-OUTPUT(V1-V2,V3)		AC100V 1minute, DC100V 10M Ω min (At Room Temperature)					
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +60°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 ² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s ² (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-B, VCCI-B					
OTHERS	CASE SIZE/WEIGHT		28×80×100mm (W×H×D) /250g max (without cover)					
	COOLING METHOD		Convection					

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).

* Series/Parallel operation with other model is not possible.

* When units are operated with chassis and cover, derating is required.

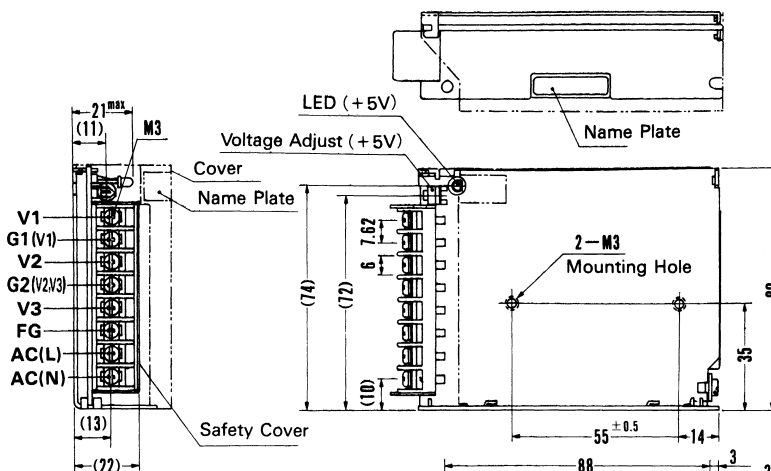
External view



I/O Connector	Mating Connector	Terminal
CN1 B3P5-VH	VHR-5N	Chain : SVH-21T-P1.1
CN2 B8P-VH	VHR-8N	Loose: BVH-21T-P1.1

(Mfr: J.S.T.)

Connector type



※ Weight: 250 g or less (without cover)

※ Cover is optional

※ Tolerance: ± 1

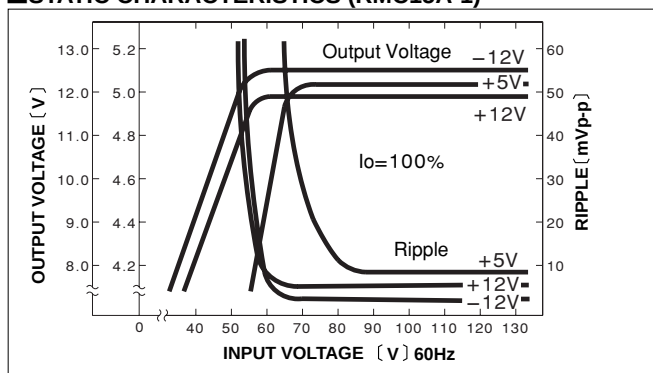
※ Dimensions in mm.

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

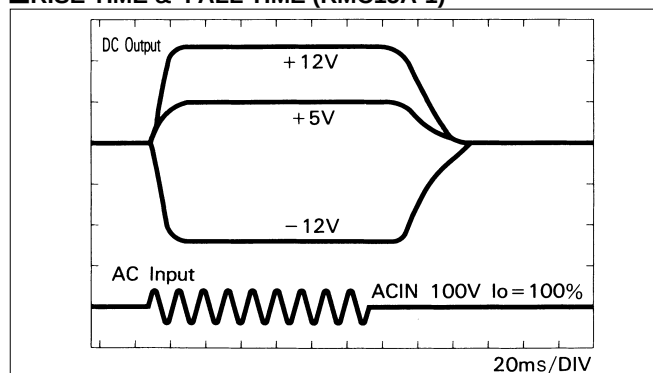
Barrier strip type

Performance data

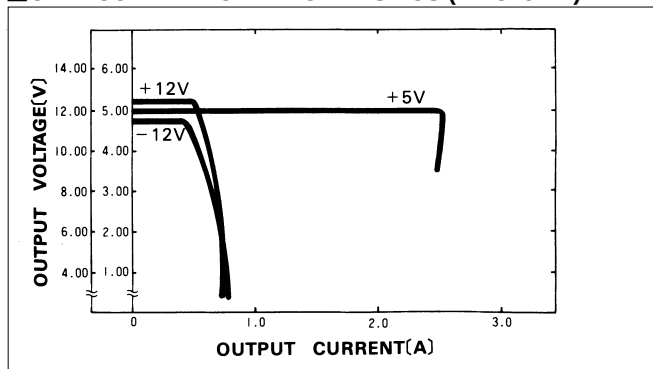
■ STATIC CHARACTERISTICS (RMC15A-1)



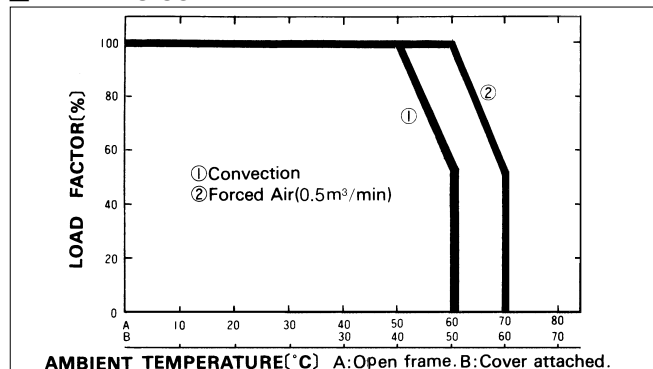
■ RISE TIME & FALL TIME (RMC15A-1)



■ OVERCURRENT CHARACTERISTICS (RMC15A-1)



■ DERATING CURVE



COSEL

Unit type

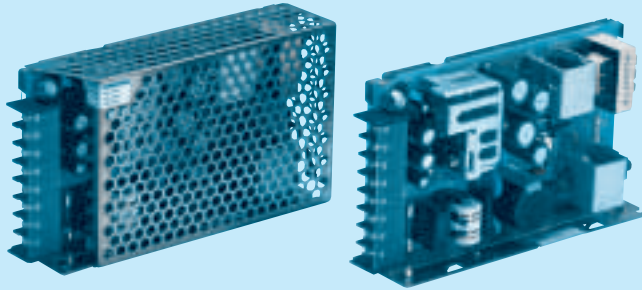
Ordering information

RMC30A

RMC 30A -1 -□

① ② ③ ④

RoHS



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

MODEL		RMC30A-1	RMC30A-2
DC OUTPUT	V1	+5V 3.0A	+5V 3.0A
	V2	+12V 1.2A	+15V 0.5A
	V3	-12V 0.3A	-15V 0.5A

SPECIFICATIONS

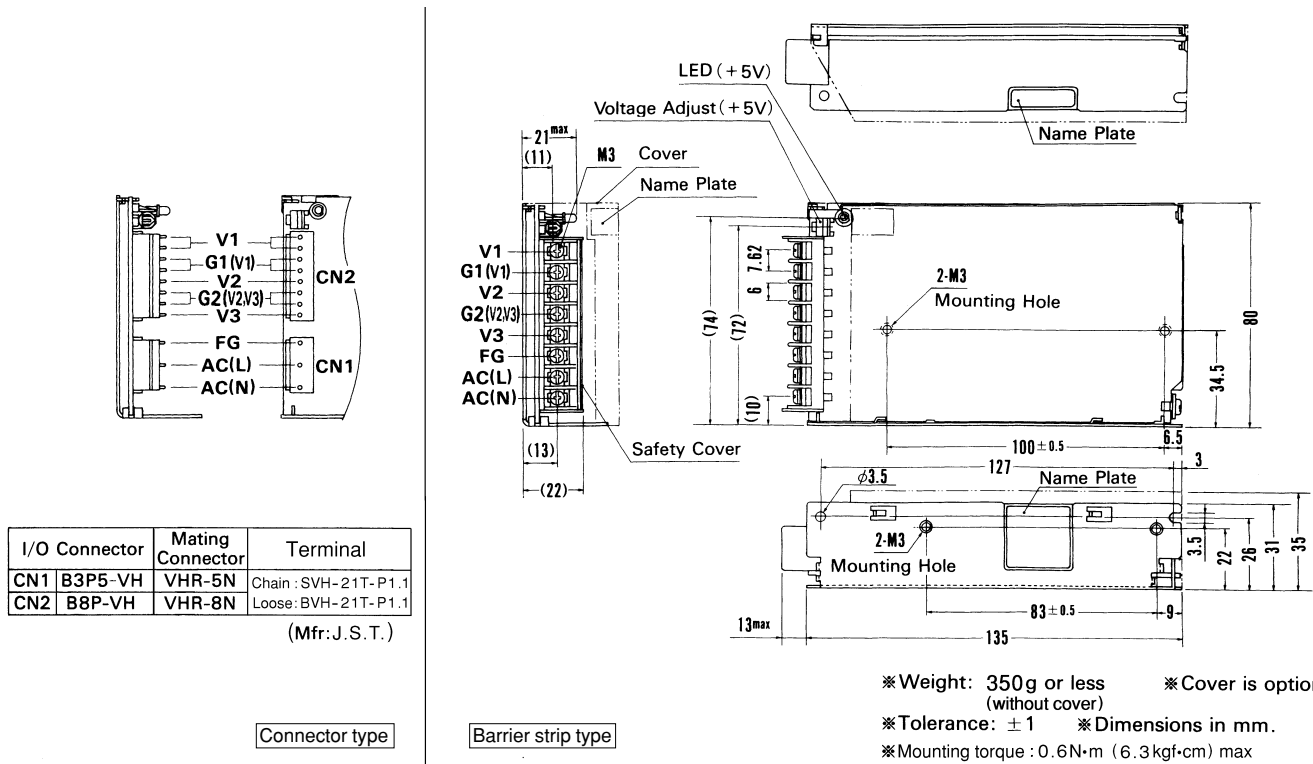
	MODEL		RMC30A-1			RMC30A-2		
INPUT	VOLTAGE[V]		AC85 - 132 1 ϕ or DC110 - 170					
	CURRENT[A]	ACIN 100V	0.9typ (Io=100%)					
	FREQUENCY[Hz]		47 - 440 or DC					
	EFFICIENCY[%]	ACIN 100V	67typ (Io=100%)					
	INRUSH CURRENT[A]	ACIN 100V	30typ (Io=100%) (At cold start)					
OUTPUT	VOLTAGE[V]		+5	+12	-12	+5	+15	-15
	CURRENT[A]		0 - 3.0	0 - 1.2	0 - 0.3	0 - 3.0	0 - 0.5	0 - 0.5
	LINE REGULATION[mV]		20max	48max	48max	20max	60max	60max
	LOAD REGULATION[mV]		100max	120max	150max	100max	120max	150max
	RIPPLE[mVp-p]	0 to +50°C $\pm$ 1	100max	120max	120max	100max	120max	120max
		-10 - 0°C $\pm$ 1	150max	160max	160max	150max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C $\pm$ 1	120max	150max	150max	120max	150max	150max
		-10 - 0°C $\pm$ 1	170max	180max	180max	170max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	350max	350max	50max	350max	350max
		-10 to +50°C	60max	420max	420max	60max	420max	420max
	START-UP TIME[ms]		100max (ACIN 85V, Io=100%)					
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%, 0 to +50°C) 20typ (ACIN 100V, Io=100%, 0 to +50°C)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		5.00 - 5.25	Fixed	Fixed	5.00 - 5.25	Fixed	Fixed
OUTPUT VOLTAGE SETTING[V]		——	11.40 to 12.60	-11.40 to -12.60	——	14.25 to 15.75	-14.25 to -15.75	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION		Works at 115 - 140% of rating (+5V)					
	OPERATING INDICATION		LED (Green)					
ISOLATION	INPUT-OUTPUT		AC2,000V 1minute, DC500V 50M Ω min (At Room Temperature)					
	INPUT-FG, COVER		AC2,000V 1minute, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-FG, COVER		AC500V 1minute, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-OUTPUT(V1-V2,V3)		AC100V 1minute, DC100V 10M Ω min (At Room Temperature)					
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +60°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 ² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s ² (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-B, VCCI-B					
OTHERS	CASE SIZE/WEIGHT		31 $\times$ 80 $\times$ 135mm (W $\times$ H $\times$ D)/350g max (without cover)					
	COOLING METHOD		Convection					

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).

* Series/Parallel operation with other model is not possible.

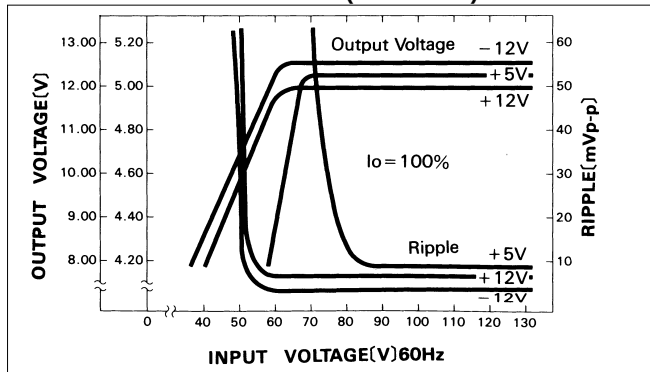
* When units are operated with chassis and cover, derating is required.

External view

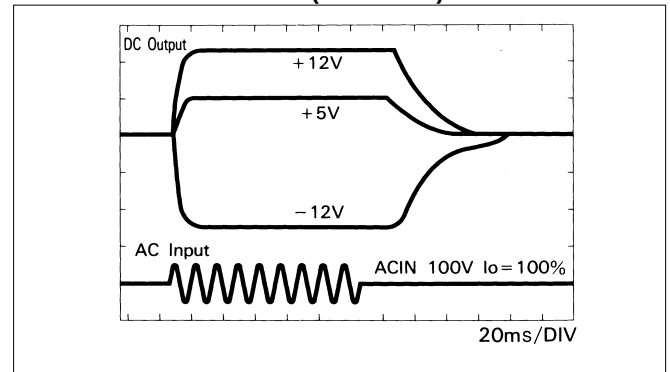


Performance data

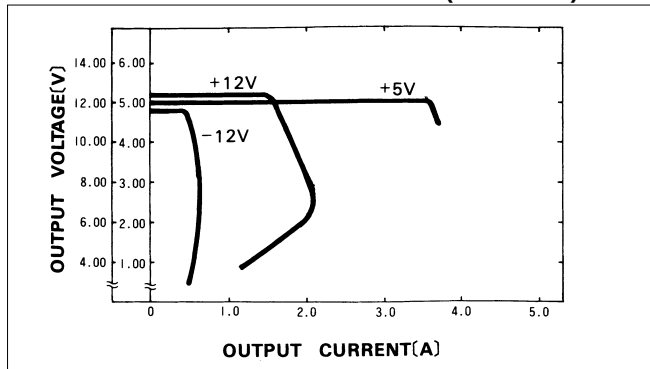
STATIC CHARACTERISTICS (RMC30A-1)



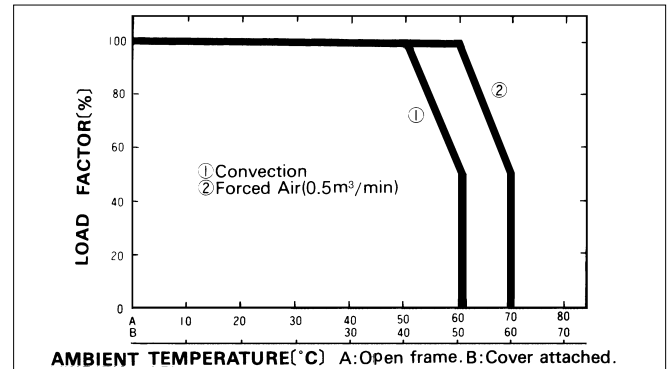
RISE TIME & FALL TIME (RMC30A-1)



OVERCURRENT CHARACTERISTICS (RMC30A-1)



DERATING CURVE



COSEL

Unit type

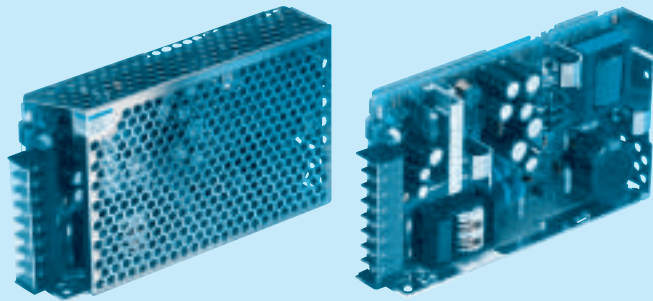
Ordering information

RMC50A

RMC 50A -1 -□

① ② ③ ④

RoHS



- 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

MODEL		RMC50A-1	RMC50A-2
DC OUTPUT	V1	+5V 5.0A	+5V 5.0A
	V2	+12V 1.5(Peak 2)A	+15V 1.2A
	V3	-12V 0.5A	-15V 0.5A

SPECIFICATIONS

	MODEL		RMC50A-1			RMC50A-2		
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
	CURRENT[A]		*1 0 - 5.0	0 - 1.5 (Peak 2)	0 - 0.5	0 - 5.0	0 - 1.2	0 - 0.5
	LINE REGULATION[mV]		20max	48max	48max	20max	60max	60max
	LOAD REGULATION[mV]		40max	150max	150max	40max	150max	150max
	RIPPLE[mVp-p]	0 to +50°C *2	80max	120max	120max	80max	120max	120max
		-10 - 0°C *2	140max	160max	160max	140max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C *2	120max	150max	150max	120max	150max	150max
		-10 - 0°C *2	160max	180max	180max	160max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	350max	350max	50max	350max	350max
		-10 to +50°C	60max	420max	420max	60max	420max	420max
	START-UP TIME[ms]		100max (ACIN 85V, Io=100%)					
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%, 0 to +50°C) 20typ (ACIN 100V, Io=100%, 0 to +50°C)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		5.00 - 5.25	Fixed	Fixed	5.00 - 5.25	Fixed	Fixed
OUTPUT VOLTAGE SETTING[V]		——	11.40 to 12.60	-11.40 to -12.60	——	14.25 to 15.75	-14.25 to -15.75	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION		Works at 115 - 140% of rating (+5V)					
	OPERATING INDICATION		LED (Green)					
ISOLATION	INPUT-OUTPUT		AC2,000V 1minute, DC500V 50M Ω min (At Room Temperature)					
	INPUT-FG, COVER		AC2,000V 1minute, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-FG, COVER		AC500V 1minute, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-OUTPUT(V1-V2,V3)		AC100V 1minute, DC100V 10M Ω min (At Room Temperature)					
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 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 ² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s ² (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-B, VCCI-B					
OTHERS	CASE SIZE/WEIGHT		31 x 93 x 155mm (W x H x D) /350g max (without cover)					
	COOLING METHOD		Convection					

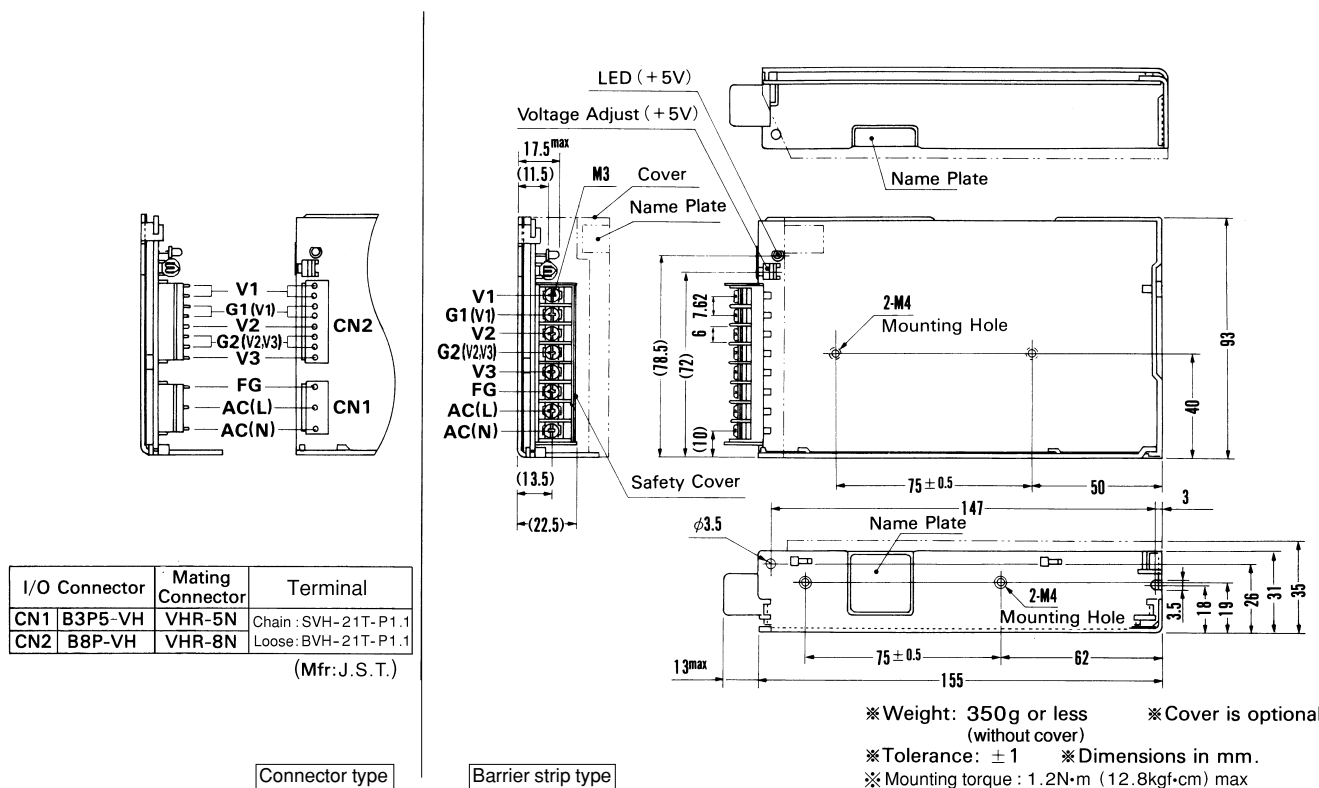
*1 Peak load current of V2 for RMC50A-1 is possible to draw 30 seconds.

*2 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).

* Series/Parallel operation with other model is not possible.

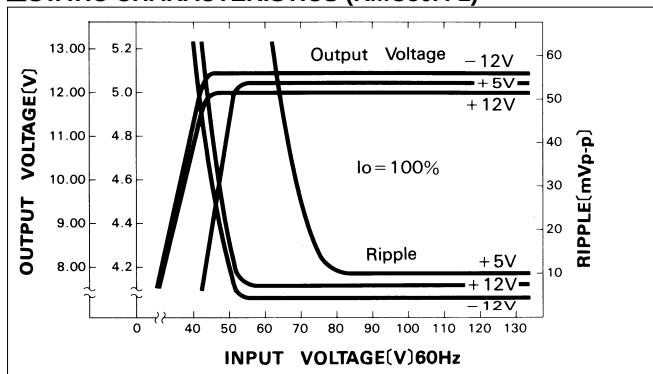
* When units are operated with chassis and cover, derating is required.

External view

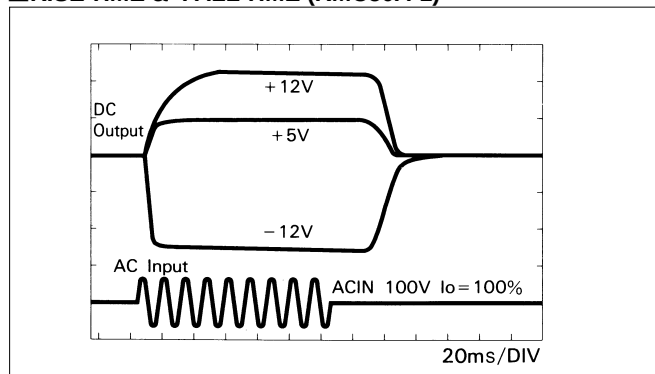


Performance data

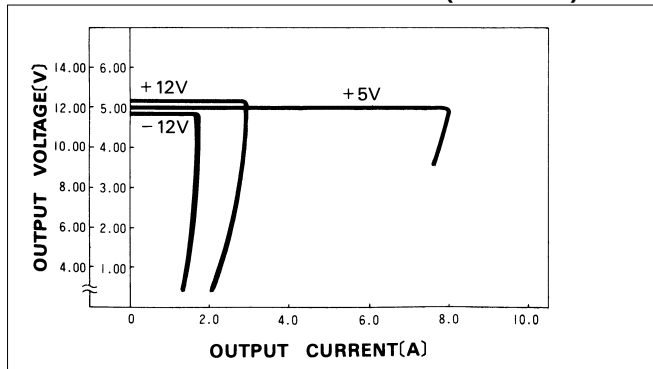
■ STATIC CHARACTERISTICS (RMC50A-1)



■ RISE TIME & FALL TIME (RMC50A-1)



■ OVERCURRENT CHARACTERISTICS (RMC50A-1)



■ DERATING CURVE

