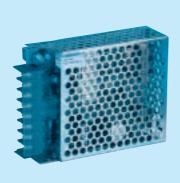
Ordering information

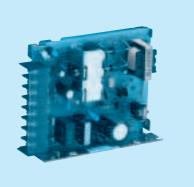
RMB15A

RMB 15A

c**FL**°us RoHS

RMB





- ①Series name ②Output wattage
- 3 Output voltage combina-

- Optional *1
 J :Connector type
 N :with Cover

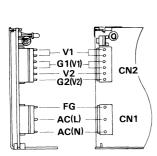
MODEL		RMB15A-1	RMB15A-2
DC OUTPUT	V1	+5V 0.8A	+5V 0.8A
	V2	+12V 1.0(Peak 1.3)A	+24V 0.5(Peak 0.65)A

SPECIFICATIONS

	MODEL		RMB15A-1 RMB15A-2			
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170			
	CURRENT[A]	ACIN 100V	0.45typ (lo=100%)			
INPUT F	FREQUENCY[Hz]		47 - 440 or DC			
	EFFICIENCY[%]	ACIN 100V	68typ (lo=100%)			
	INRUSH CURRENT[A]	ACIN 100V	20typ (lo=100%) (At cold	start)		
	VOLTAGE[V]		+5	+12	+5	+24
	CURRENT[A]		0 - 0.8	0 - 1.0 (Peak 1.3)	0 - 0.8	0 - 0.5 (Peak 0.65)
	LINE REGULATION	V[mV]	20max	48max	20max	96max
	LOAD REGULATIO	N[mV]	150max	100max	150max	150max
	DIDDI Elm\/n n1	0 to +50℃	100max	120max	100max	120max
	RIPPLE[mVp-p]	-10 - 0℃	140max	160max	140max	160max
OUTDUT	DIDDI E NOICEIMVa al	0 to +50°C	120max	150max	120max	150max
OUTPUT	RIPPLE NOISE[mVp-p]	-10 - 0℃	160max	180max	160max	180max
	TEMPERATURE REGULATION[mV]	0 to +50℃	150max	120max	150max	240max
	TEMPERATURE REGULATION[IIIV]	-10 to +50℃	180max	150max	180max	290max
	START-UP TIME[m	s]	100max (ACIN 85V, Io=100%)			
	HOLD-UP TIME[ms]		10typ (ACIN 85V, lo=100%, 0 to +50°C) 20typ (ACIN 100V, lo=100%, 0 to +50°C)			
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		5.00 - 5.25	Fixed	5.00 - 5.25	Fixed
	OUTPUT VOLTAGE SET	TING[V]		11.40 - 12.60		22.80 - 25.20
PROTECTION	OVERCURRENT PROTECTION		Works over 105% of rating (peak current for V2) and recovers automatically			
CIRCUIT AND	OVERVOLTAGE PROTECTION		By zener diode clamping	(+5V)		
OTHERS	OPERATING INDICATION		LED (Green)			
	INPUT-OUTPUT		AC2,000V 1minute, DC50	$0V~50M\Omega$ min (At Room T	emperature)	
ISOLATION	INPUT-FG, COVER		AC2,000V 1minute, DC500V 50MΩmin (At Room Temperature)			
ISOLATION	OUTPUT-FG, COVE	ER	AC500V 1minute, DC500V 50MΩmin (At Room Temperature)			
	OUTPUT-OUTPUT(V1-V2)	AC100V 1minute, DC100V	V 10M Ω min (At Room Ter	mperature)	
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +60℃, 20 - 90%RH	H (Non condensing) (Refer	to DERATING CURVE), 3,	.000m (10,000feet) max
ENVIRONMENT	STORAGE TEMP.;HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max			
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis			
	IMPACT		196.1m/s² (20G), 11ms, o	nce each X, Y and Z axis		
SAFETY AND NOISE	AGENCY APPROV	ALS	UL60950-1, C-UL Complies with DEN-AN			
REGULATIONS	CONDUCTED NOIS	SE	Complies with FCC-B, VC	CI-B		
OTHERS	CASE SIZE/WEIGH	IT	28×80×100mm (W×H×	(D) /250g max (without co	ver)	
UITERS	COOLING METHOD		Convection			

- *1 Please contact us about safety approvals for the model with option.
 * Avoid prolonged use under over-load.
- Series/Parallel operation with other model is not possible.
- Derating is required when operated with case cover.

External view

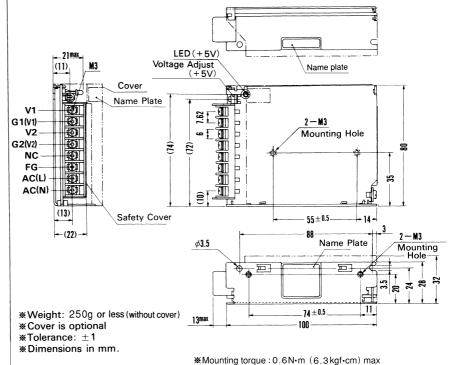


I/O	Connector	Mating Connector
CN1	B3P5-VH	VHR-5N
CN2	B6P-VH	VHR-6N
		(Mfr:J.S.T.)

Terminal Chain: SVH-21-P1.1 Loose: BVH-21-P1.1 (Mfr:J.S.T.)

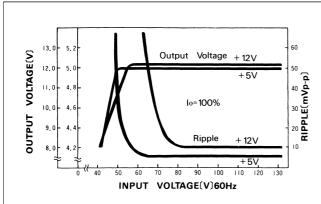
Connector type

Barrier strip type

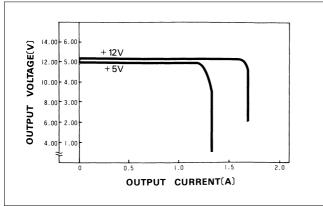


Performance data

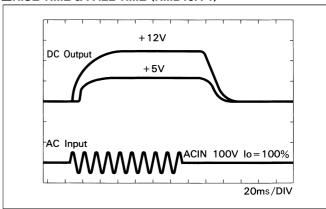
■STATIC CHARACTERISTICS (RMB15A-1)



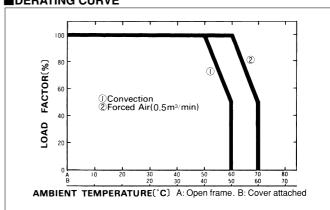
■OVERCURRENT CHARACTERISTICS (RMB15A-1)



■RISE TIME & FALL TIME (RMB15A-1)



■DERATING CURVE



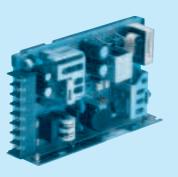
Ordering information

RMB30A

RMB 30A







- ①Series name ②Output wattage
- 3 Output voltage combina-

- Optional *1
 J :Connector type
 N :with Cover

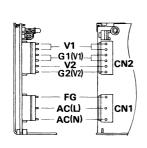
MODEL		RMB30A-1	RMB30A-2
DC OUTPUT	V1	+5V 1.5A	+5V 1.5A
	V2	+12V 2.0(Peak 2.8)A	+24V 1.0(Peak 1.4)A

SPECIFICATIONS

	MODEL		RMB30A-1 RMB30A-2					
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170					
	CURRENT[A]	ACIN 100V	/ 0.9typ (lo=100%)					
INPUT	FREQUENCY[Hz]		47 - 440 or DC					
	EFFICIENCY[%]	ACIN 100V	69typ (lo=100%)	typ (Io=100%)				
	INRUSH CURRENT[A]	ACIN 100V	30typ (lo=100%) (At cold start)					
	VOLTAGE[V]		+5	+12	+5	+24		
	CURRENT[A]		0 - 1.5	0 - 2.0 (Peak 2.8)	0 - 1.5	0 - 1.0 (Peak 1.4)		
	LINE REGULATION	V[mV]	20max	48max	20max	96max		
	LOAD REGULATIO	N[mV]	150max	100max	150max	150max		
	RIPPLE[mVp-p]	0 to +50℃	100max	120max	100max	120max		
	IIII I EE[IIIVP-P]	-10 - 0℃	140max	160max	140max	160max		
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	150max	120max	150max		
0011 01	TIII T EE NOISE[IIIVP-P]	-10 - 0℃	160max	180max	160max	180max		
	TEMPERATURE REGULATION[mV]	0 to +50℃	150max	120max	150max	240max		
	TEMI ENATONE NEGOCIATION[IIV]	-10 to +50℃	180max	150max	180max	290max		
	START-UP TIME[m	•	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	5.00 - 5.25	Fixed		
	OUTPUT VOLTAGE SETTING[V]			11.40 - 12.60		22.80 - 25.20		
PROTECTION			, , , , , , , , , , , , , , , , , , , ,					
CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION		Works at 115 - 140% of rating (+5V)					
UITERS	OPERATING INDICATION		LED (Green)					
	INPUT-OUTPUT		AC2,000V 1minute, DC500V 50MΩmin (At Room Temperature)					
ISOLATION	INPUT-FG, COVER		AC2,000V 1minute, DC500V 50MΩmin (At Room Temperature)					
	OUTPUT-FG, COVE		AC500V 1minute, DC500V 50MΩmin (At Room Temperature)					
	OUTPUT-OUTPUT(AC100V 1minute, DC100V 10MΩmin (At Room Temperature)					
	OPERATING TEMP.;HUMID.AND ALTITUDE		,					
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max					
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		` /	nce each X, Y and Z axis				
NOISE	AGENCY APPROVALS		UL60950-1, C-UL Complie					
REGULATIONS	CONDUCTED NOIS		Complies with FCC-B, VCCI-B					
OTHERS	CASE SIZE/WEIGH			(D) /350g max (without co	ver)			
	COOLING METHO	D	Convection					

- Please contact us about safety approvals for the model with option. Avoid prolonged use under over-load.
- Series/Parallel operation with other model is not possible.
- Derating is required when operated with case cover.

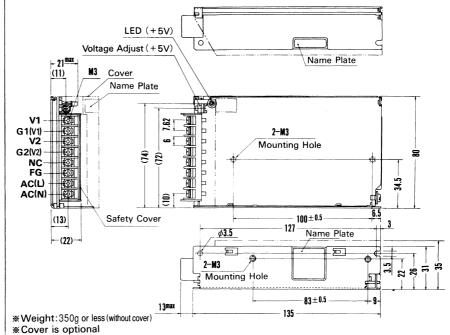
External view



1/0	Connector	Mating Connector
CN1	B3P5-VH	VHR-5N
CN2	B6P-VH	VHR-6N
		(Mfr. IST

Terminal Chain: SVH-21-P1.1 Loose: BVH-21-P1.1 (Mfr:J.S.T.)

Connector type

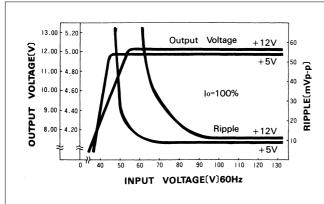


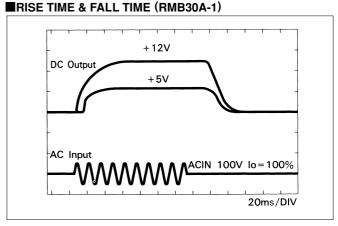
- ★Tolerance: ±1 ※ Dimensions in mm.
- Barrier strip type

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

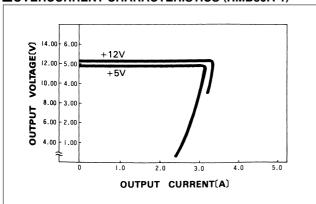
Performance data

■STATIC CHARACTERISTICS (RMB30A-1)

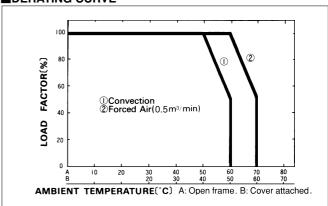








DERATING CURVE



COSEL

AC-DC Power Supplies Enclosed type

RMB50A

Ordering information

RMB 50A

RMB

c**FL**°us RoHS

1)S	erie	es r	name	

- ②Output wattage ③Output voltage combina-
- ①Optional *1
 G:Low leakage current
 J:Connector type
 N:with Cover

MODEL		RMB50A-1	RMB50A-2
DC OUTPUT	V1	+5V 1.5A	+5V 1.5A
	V2 +12V 3.6(Peak 4)A	+12V 3.6(Peak 4)A	+24V 1.8(Peak 2)A

SPECIFICATIONS

	MODEL		RMB50A-1 RMB50A-2				
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170				
	CURRENT[A]	ACIN 100V	1.4typ (lo=100%)				
	FREQUENCY[Hz]		47 - 440 or DC				
	EFFICIENCY[%]	ACIN 100V	74typ (lo=100%)				
	INRUSH CURRENT[A]	ACIN 100V	30typ (lo=100%) (At cold	start)			
	VOLTAGE[V]		+5	+12	+5	+24	
	CURRENT[A]		0 - 1.5	0 - 3.6 (Peak 4)	0 - 1.5	0 - 1.8 (Peak 2)	
	LINE REGULATION	N[mV]	20max	48max	20max	96max	
	LOAD REGULATIO	N[mV]	150max	100max	150max	150max	
	DIDDI E[m\/n n]	0 to +50°C	80max	120max	80max	120max	
	RIPPLE[mVp-p]	-10 - 0℃	140max	160max	140max	160max	
OUTPUT	DIDDLE NOICEIMVa ni	0 to +50°C	120max	150max	120max	150max	
OUIPUI	RIPPLE NOISE[mVp-p]	-10 - 0℃	160max	180max	160max	180max	
	TEMPEDATURE RECUI ATION(\/)	0 to +50℃	150max	120max	150max	240max	
	TEMPERATURE REGULATION[mV]	-10 to +50℃	180max	150max	180max	290max	
	START-UP TIME[m	s]	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	5.00 - 5.25	Fixed	
	OUTPUT VOLTAGE SET	TING[V]		11.40 - 12.60		22.80 - 25.20	
PROTECTION	OVERCURRENT PROTECTION		Works over 105% of rating	g (peak current for V2) and	recovers automatically		
CIRCUIT AND	OVERVOLTAGE PROTECTION		Works at 115 - 140% of ra	ating (+5V)			
OTHERS	OPERATING INDICATION						
	INPUT-OUTPUT		AC2,000V 1minute, DC50	0V 50M Ω min (At Room Te	emperature)		
ISOLATION	INPUT-FG, COVER		AC2,000V 1minute, DC500V 50MΩmin (At Room Temperature)				
ISOLATION	OUTPUT-FG, COVE	ER	AC500V 1minute, DC500V 50MΩmin (At Room Temperature)				
	OUTPUT-OUTPUT(V1-V2)	AC100V 1minute, DC100V	/ 10M $_{\Omega}$ min (At Room Tem	nperature)		
	OPERATING TEMP.,HUMID.AND	ALTITUDE	-10 to +65℃, 20 - 90%RH	I (Non condensing) (Refer	to DERATING CURVE), 3,	000m (10,000feet) max	
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis				
SAFETY AND NOISE	AGENCY APPROVALS		UL60950-1, C-UL Complies with DEN-AN				
REGULATIONS	CONDUCTED NOIS	SE	Complies with FCC-B, VCCI-B				
OTHERS	CASE SIZE/WEIGH	IT	31×93×155mm (W×H×	D) /350g max (without cov	ver)		
UITIENS	COOLING METHO	D	Convection				

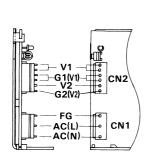
 ^{*1} Please contact us about safety approvals for the model with option.
 * Avoid prolonged use under over-load.

Series/Parallel operation with other model is not possible.

^{*} Derating is required when operated with case cover.



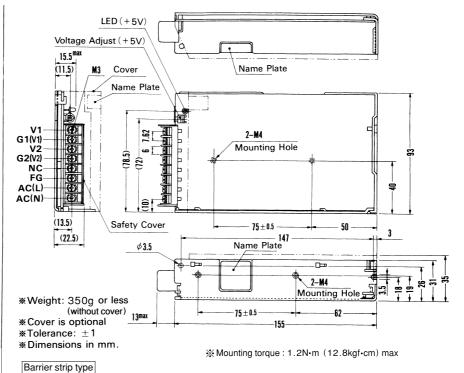
External view



I/O	Connector	Mating Connector
CN1	B3P5-VH	VHR-5N
CN2	B6P-VH	VHR-6N
		(Mfr:J.S.T.)

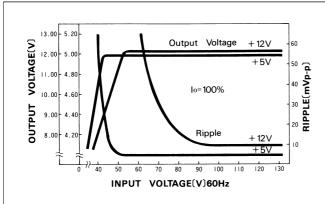
Terminal Chain: SVH-21-P1.1 Loose: BVH-21-P1.1 (Mfr:J.S.T.)

Connector type

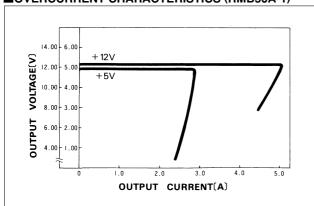


Performance data

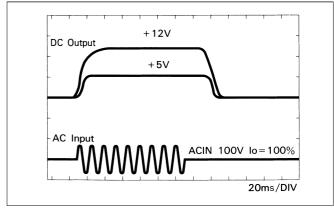
■STATIC CHARACTERISTICS (RMB50A-1)



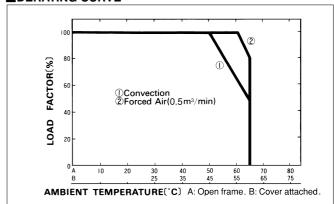




■RISE TIME & FALL TIME (RMB50A-1)







RMB