LAST TIME BUY: 30TH OCT 2020, 0512DB, 0512TB, 0515TB, 05DB, 12DB, 12SB, 24SB LAST TIME BUY: 30TH OCT 2020, "-ST" VERSION

Features

- Universal input voltage range
 3kVAC / 1 minute isolation
- Low output ripple and noise

Regulated Converter

- Short circuit protectedTriple output with independent outputs
- Suitable for industrial applications
- CE marked

Description

Switching AC/DC power module for PCB or DIN-rail mounting.

Selection Guide

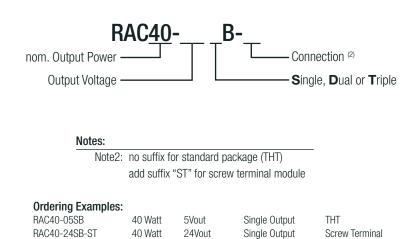
	iuu				
Part Number	Input Voltage Range IVAC1	Output Voltage IVDC1	Output Current [mA]	Efficiency typ ⁽¹⁾ [%]	Max. Capacitive Load [µF]
RAC40-15SB	90-264	15	2666	83	[µ1]
RAC40-15DB	90-264	±15	±1333	83	±1000

Notes:

Note1: Efficiency is tested at nominal input and full load at +25°C ambient

NRND (Last ti	me buy: 30 th Oc	t 2020)			
Part Number	Input Voltage Range	Output Voltage	Output Current	Efficiency typ ⁽¹⁾	Max. Capacitive Load
RAC40-05SB (2)	[VAC] 90-264	[VDC] 5	[mA] 8000	[%] 81	[μ F] 40000
RAC40-12SB (2)	90-264	12	3333	84	8600
RAC40-24SB (2)	90-264	24	1667	83	1400
RAC40-05DB (2)	90-264	±5	±4000	81	±12000
RAC40-12DB (2)	90-264	±12	±1666	83	±4400
RAC40-0512DB (2)	90-264	5/12	5000/1250	82	10000/470
RAC40-0512TB (2)	90-264	5/±12	5000/±600	82	10000/±780
RAC40-0515TB (2)	90-264	5/±15	5000/±500	81	10000/±900

Model Numbering





RAC40-B

40 Watt Single, Dual, Double, Triple Output





PREFERRED ALTERNATIVES Please consider this alternatives:

RACM40-K Series

EN60950-1 certified EN55032 compliant EN55024 compliant

RECOM AC/DC Converter

RAC40-B Series

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

BASIC CHARACTERISTIC	S						
Parameter	neter		Condition		Min.	Тур.	Max.
Input Voltage Range (3)			nom. Vin = 230VAC		90VAC 100VDC	230VAC	264VAC 375VDC
Input Current			115VAC 230VAC				860mA 460mA
Inrush Current		2ms max., cold start	115VAC 230VAC			30A 50A	
No load Power Consumption			115VAC/230VAC				720mW
Input Frequency Range			AC Input		47Hz		440Hz
Hold-up Time					10ms		
Minimum Load			Single Dual Double, Triple		1% 10% 25%		
Internal Operating Frequency						132kHz	
Output Ripple and Noise (4)			20MHz BW				1.0% of Vout
Ν	lotes:						
_	Note3:	The produ	ne products were submitted for safety files at AC-Input operation				
	Note4:	Measuren	easurements are made with a 0.1 μ F and 47 μ F MLCC in parallel across output (low ESR)				

REGULATIONS			
Parameter	Cond	ition	Value
Output Accuracy (5)	Single	, Dual	±2.0% typ
	Double	, Triple	$\pm 3.0\%$ typ. (+5Vout) / $\pm 5.0\%$ typ. (\pm Vout)
Line Degulation	law line to high line	Single, Dual	±0.5% typ.
Line Regulation	low line to high line	Double, Triple	±0.5% typ. (+5Vout) / ±5.0% typ. (±Vout)
	1% to 100% load	Single	1.0% typ.
	10% to 100% load	Dual	1.0% typ.
Load Regulation ⁽⁶⁾		Double	2.0% typ. (+5Vout) / 6.0% typ. (±Vout)
	25% to 100% load	Triple	3.0% typ. (+5Vout) / 7.0% typ. (±Vout)
	15% to 100% load	Dual	±5.0% typ.
Cross Regulation		Double	±1.0% typ. (+5Vout) / ±7.0% typ. (±Vout)
	25% to 100% load	Triple	±3.0% typ. (+5Vout) / ±7.0% typ. (±Vout)
Notes:			

Note6: Operation below Minimum Load will not harm the converter, but specifications may not be met

Parameter		Туре	Value
Short Circuit Protection (SCP)			Hiccup mode, auto recovery
Over Voltage Protection (OVP)			zener diode clamp
Over Current Protection (OCP)			105% typ
Over Temperature Protection (OTP)	@t	c=100°C	thermal shutdown, auto restart after cool dowr
Isolation Voltage	I/P to O/P	tested for 1 minute	3kVAC
Isolation Resistance			100M Ω max
Leakage Current			0.75mA max

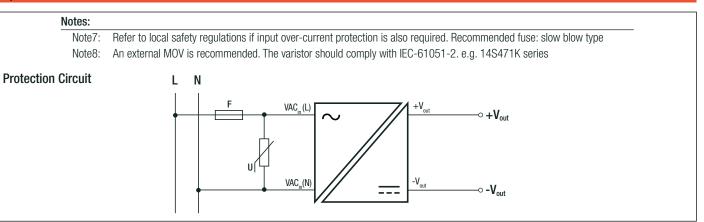
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LAST TIME BUY: 30TH Oct 2020, 0512DB, 0512TB, 0515TB, 05DB, 12DB, 12SB, 24SB LAST TIME BUY: 30TH Oct 2020, "-ST" VERSION

RECOM AC/DC Converter



Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)



ENVIRONMENTAL			
Parameter	Condition		Value
Operating Temperature Dange	@ natural convection 0.1m/s	full load	-40°C to +50°C
Operating Temperature Range		refer to derating graph	-40°C to +70°C
Temperature Coefficient			±0.01%/K typ.
Operating Humidity			95% RH max.
MTBF	according to MIL-HDBK-217F	F, G.B. +25°C	200 - 400 x 10 ³ hours
Derating Graph (@ Chamber and natural convection 0.1m/s)		20 30 40 50 60 70 80 mperature [°C]	

SAFETY AND CERTIFICATIONS		
Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety		EN60950-1:2006 + A2:2013
EAC Safety of Low Voltage Equipment	RU-AT.49.09571	TP TC 004/2011
RoHS2+		RoHS-2011/65/EU + AM-2015/863
EMC Compliance	Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment – Emission Requirements		EN55032:2015, Class B
Information technology equipment - Immunity characteristics - Limits and methods of measurement		EN55024:2010 + A1:2015
Limits for harmonic current emissions		EN61000-3-2, 2014
Limitation of voltage fluctuations/flicker in low-voltage systems		EN61000-3-3, 2013

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RECOM AC/DC Converter

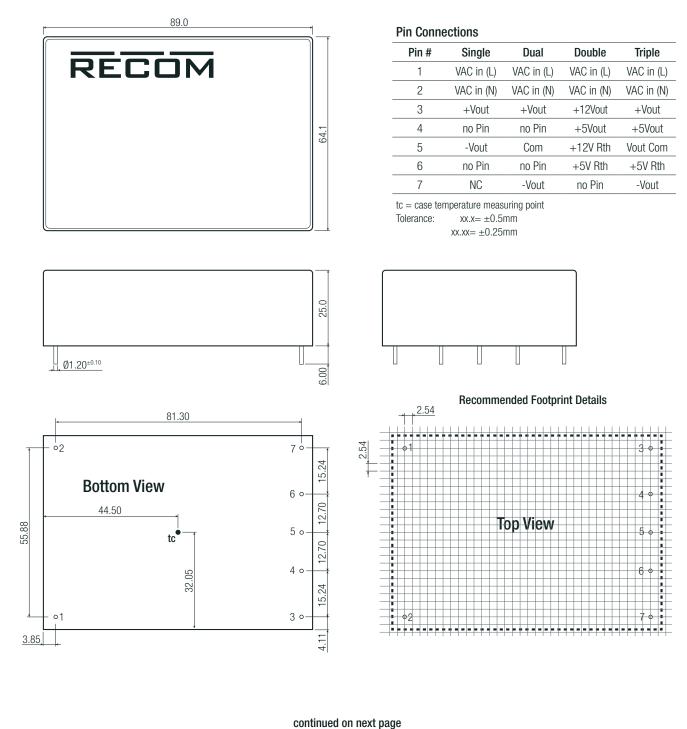
RAC40-B Series

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

DIMENSION AND PHYSICAL CHARACTERISTICS				
Parameter	Туре	Value		
Material	case	epoxy with fivbreglas (UL94V-0)		
Dimension (LxWxH)	standard	89.0 x 64.1 x 25.0mm		
	with suffix "-ST"	111.9 x 64.6 x 30.6mm		
Woight	standard	242g typ.		
Weight	with suffix "-ST"	317g typ.		

Dimension Drawing (mm)





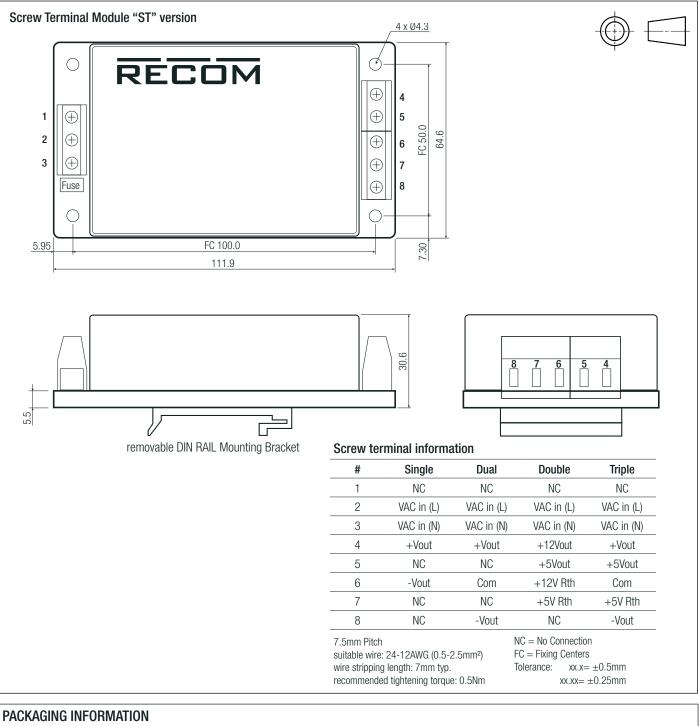
LAST TIME BUY: 30TH Oct 2020, 0512DB, 0512TB, 0515TB, 05DB, 12DB, 12SB, 24SB LAST TIME BUY: 30TH OCT 2020, "-ST" VERSION

RAC40-B

Series

RECOM AC/DC Converter

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)



PACKAGING INFORMATION				
Parameter	T	/pe	Value	
Paakaging Dimonsion (Ly)((yH)	cardboard box	standard	260.0 x 70.0 x 42.0mm	
Packaging Dimension (LxWxH)	vith	with suffix "-ST"	119.0 x 64.0 x 54.0mm	
Packaging Quantity	sta	ndard	2pcs	
Packaging Quantity	with su	ffix "-ST"	1pcs	
Storage Temperature Range			-40°C to +85°C	
Storage Humidity	non-co	ndensing	95% RH	

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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