#### NOT RECOMMENDED FOR NEW DESIGNS (LAST TIME BUY: 27<sup>TH</sup> NOV 2020)

### Features

Unregulated

**Converters** 

- 1:1 input range
- 0.25W SIP4 package
- Efficiency up to 82%
- 1kVDC and 2kVDC/1s basic isolation
- Operating temperature from -40°C to +100°C
- Optional continuous short circuit protection

#### Description

The RM/E series DC/DC converter has been designed to offer exceptionally high efficiency, low quiescent current and an extended operating temperature range. Uses include battery powered supplies, high efficiency designs or high temperature applications.

<b>Selection Guide</b>					
Part Number	nom. Input Voltage [VDC]	Output Voltage [VDC]	Output Current [mA]	Efficiency typ. <sup>(1)</sup> [%]	max. Capacitive Load <sup>(2)</sup> [μF]
RM-3.305S/E (3)	3.3	5	50	80	1000
RM-0505S/E <sup>(3)</sup>	5	5	50	82	1000
RM-1205S/E (3)	12	5	50	78	1000

#### Notes:

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

Note2: Max Cap Load is tested at nominal input and full resistive load and is defined as the capacitive load that will allow start up in under 1s without damage to the converter

#### **Model Numbering**



Notes:

Note3: standard part is with 1kVDC isolation add suffix "/H" for 2kVDC isolation

#### Ordering Examples:

RM-0505S/E: 5V Input Voltage, 5V Output Voltage, Single Output RM-1205S/EH: 12V Input Voltage, 5V Output Voltage, Single Output with 2kVDC Isolation



### RM/E







UL60950-1 certified CAN/CSA-C22.2 No. 60950-1-03 certified IEC60950-1 certified EN60950-1 certified



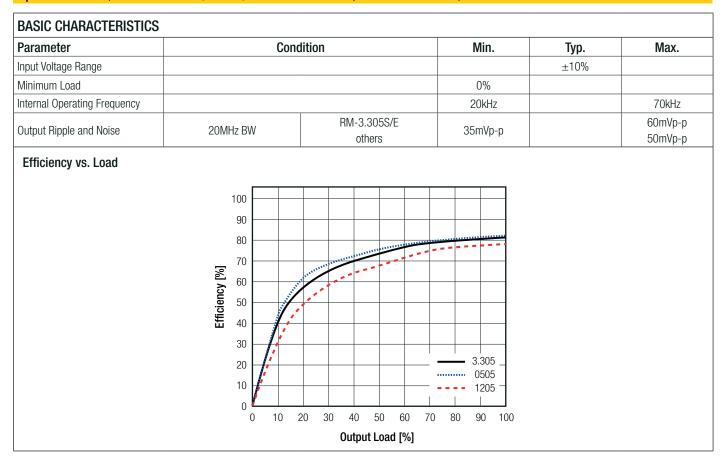
### **! NOT RECOMMENDED FOR NEW DESIGNS !**

## RECOM DC/DC Converter

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



Parameter	Condition	Valu	
Output Accuracy		-2.0% typ. / ±5.0% ma	
Line Regulation	low line to high line	±1.2% of 1.0% Vin typ	
Load Regulation (4)	10% to 100% load 4.0% typ. / 10.0% n		
Note4: 0	peration below 10% load will not harm the converter, but specifications m	ay not be met	
Deviation vs. Load			
	25 20 15 10 5 0 -5 -10 0 10 20 3.305 1205 1205 1205 1205 10 -5 -10 0 10 20 3.305 0505 -1205 1205 0 0 0 0 0 0 0 0 0 0 0 0 0		

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## RECOM DC/DC Converter

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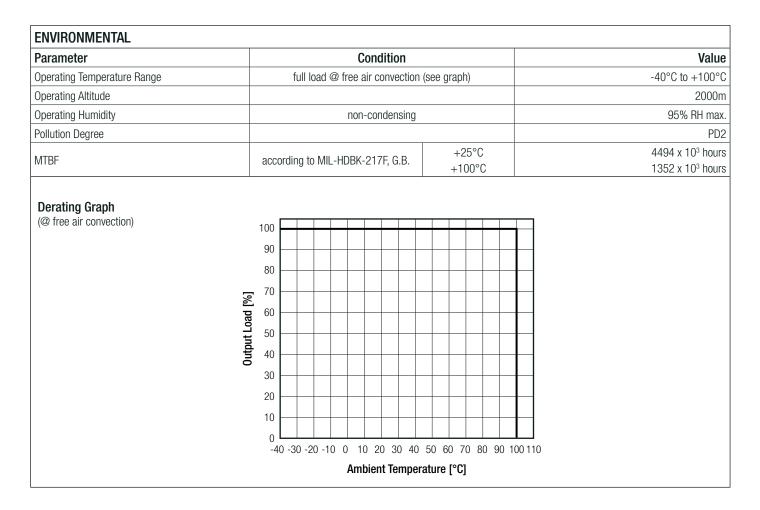
# RM/E Series

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

PROTECTIONS				
Parameter		Туре	Value	
Short Circuit Protection (SCP)				1 second
Isolation Voltage <sup>(5)</sup>	I/P to O/P	without suffix	tested for 1 second rated for 1 minute	1kVDC 500VAC/60Hz
		with suffix "/H"	tested for 1 second rated for 1 minute	2kVDC 1kVAC/60Hz
Isolation Resistance				$10G\Omega$ min.
Isolation Capacitance				75pF max.
Insulation Grade				basic
Notes:				

Note5: For repeat Hi-Pot testing, reduce the time and/or the test voltage

Note6: Refer to local wiring regulations if input over-current protection is also required. Recommended fuse: T0.5A slow blow type



### **! NOT RECOMMENDED FOR NEW DESIGNS !**

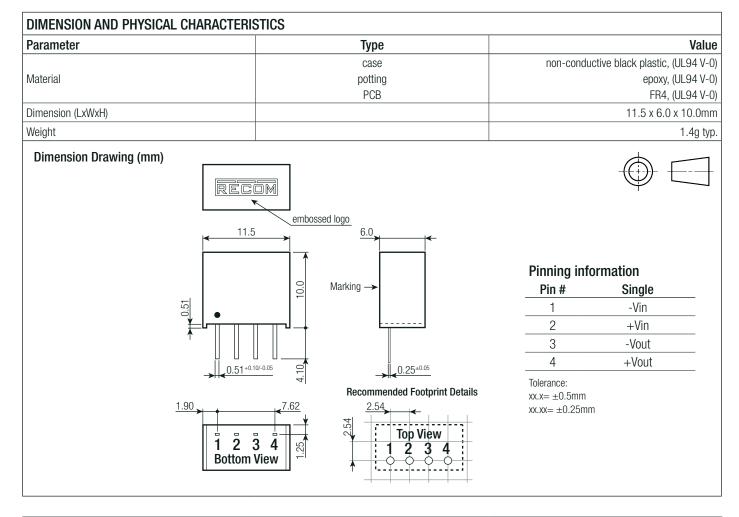
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# RM/E Series

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

SAFETY AND CERTIFICATIONS				
Certificate Type (Safety)	Report / File Number	Standard		
Information Technology Equipment, General Requirements for Safety	LVD1602031	IEC60950-1:2005, 2nd Edition + A2:2013		
		EN60950-1:2006 + A2:2013		
Information Technology Equipment, General Requirements for Safety	E358085-A4-UL	UL60950-1, 2nd Edition:2007		
Information recimology Equipment, deneral Requirements for Salety		CAN/CSA C22.2 No. 60950-1-03, 2nd Edition:2007		
EAC	RU-AT.49.09571	TP TC 004/2011		
RoHS 2		RoHS-2011/65/EU + AM-2015/863		



PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	tube	520.0 x 16.0 x 9.0mm	
Packaging Quantity	tube	42pcs	
Storage Temperature Range		-55°C to + 125°C	
Storage Humidity		95% RH max.	

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.