Features

- 1kVDC/1 second basic isolation
- **Optional continuous short circuit protection**

Unregulated **Converters**

- **UL94 V-0** package material
- No heatsink required •

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Efficiency up to 85% •

Description

The RI series has been specifically designed for applications where board space is at a premium since these 2 Watt converters have only a slightly larger foot print than the RO series 1 Watt converters. With efficiencies up to 85%, the full output power is available over the operating temperature range -40°C to +85°C and the converters can be used in ambient temperatures of up to 100°C with derating. The wide selection of input voltage and output voltage options plus an I/O-Isolation of 1kVDC as standard makes these converters suitable for many industrial applications.

Selection Guide					
Part Number	nom. Input Voltage [VDC]	Output Voltage [VDC]	Output Current [mA]	Efficiency typ. ⁽¹⁾ [%]	max. Capacitive Load ⁽²⁾ [µF]
RI-xx05S (3)	5, 12, 15, 24	5	400	78-83	1200
RI-xx12S ⁽³⁾	5, 12, 15, 24	12	167	80-85	680
RI-xx15S ⁽³⁾	5, 12, 15, 24	15	133	80-85	680

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



RI







EN60950-1 certified IEC60950-1 certified

Model Numbering



Notes:

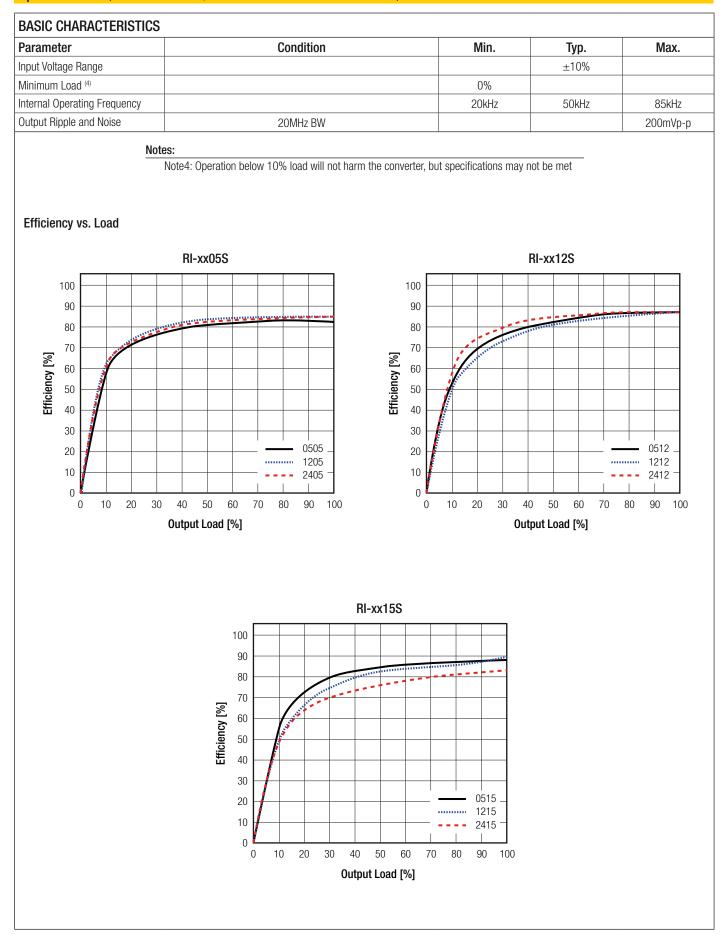
Note3: standard part is without Continuous Short Circuit Protection add suffix "/P" for Continuous Short Circuit Protection

Ordering Examples:

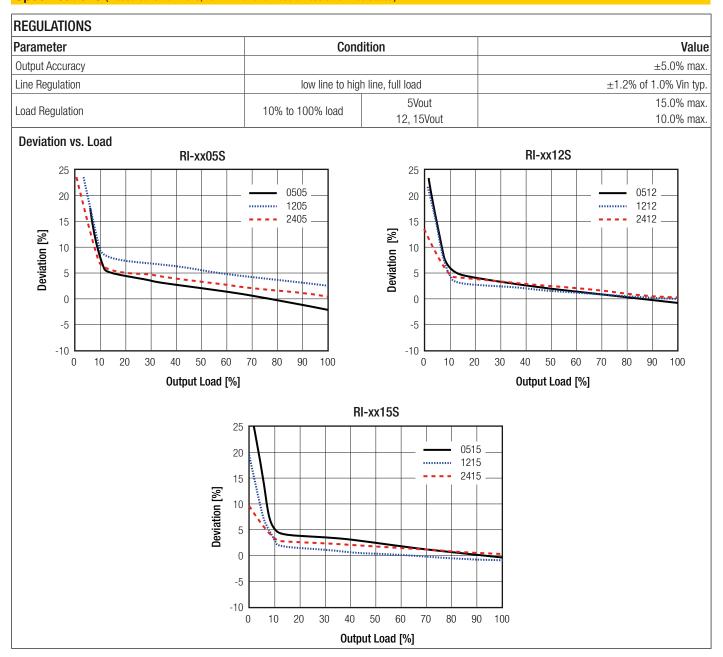
RI-123.3S/P: 12V Input Voltage, 3.3V Output Voltage, Single Output with continuous short circuit protection RI-0509S: 5V Input Voltage, 9V Output Voltage, Single Output

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

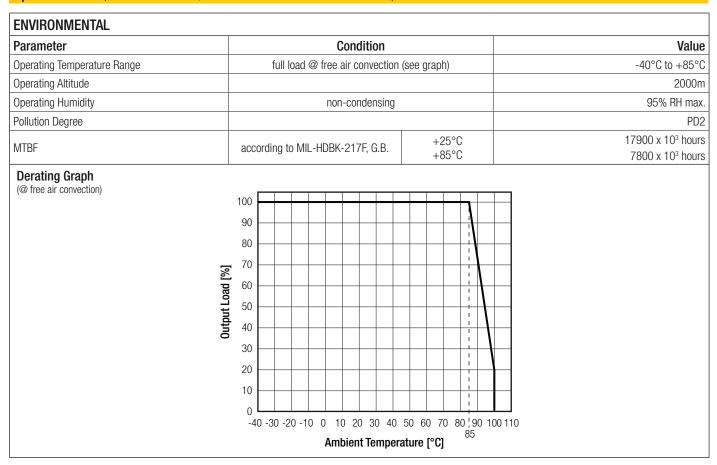


Specifications (measured @ Ta= 25°C, nom. Vin and full load unless otherwise stated)



Parameter	Туре		Value
Short Circuit Protection (SCP)	without suffix with suffix "/P"		1 second continuous
Isolation Voltage ⁽⁵⁾	I/P to O/P	tested for 1 second tested for 1 minute	1kVDC 500VAC/60Hz
Isolation Resistance			10G Ω min.
Isolation Capacitance			30pF min./ 85pF max.
Insulation Grade			basic
Notes: Note5: For repeat Hi-Pot testing, Note6: Refer to local wiring regula		test voltage protection is also required. Recommended f	use: T2A slow blow type

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



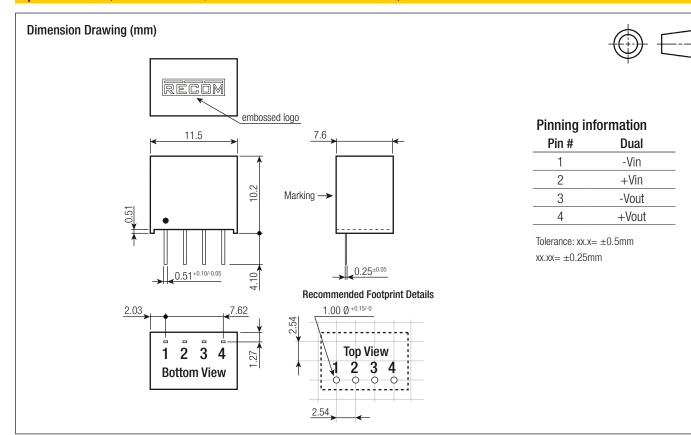
SAFETY AND CERTIFICATIONS				
Certificate Type (Safety)	Report / File Number	Standard		
Information Technology Equipment, General Requirements for Safety	1602031	IEC60950-1:2005, 2nd Edition + A2:2013		
		EN60950-1:2006 + A2:2013		
EAC	RU-AT.49.09571	TP TC 004/2011		
RoHs 2+		RoHS-2011/65/EU + AM-2015/863		

DIMENSION AND PHYSICAL CHARACTERISTICS				
Parameter	Туре	Value		
	case	non-conductive black plastic (UL94 V-1)		
Material	potting	epoxy, (UL94 V-0)		
	PCB	FR4, (UL94 V-0)		
Dimension (LxWxH)		11.5 x 7.6 x 10.2mm		
Weight		2.0g typ.		

continued on next page

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

RI Series



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.

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