Features

- Dual output from a single input rail
- 1kVDC or 2kVDC input/output basic isolation
- 1kVDC output/output isolation
- Power sharing on outputs
 - Optional continuous short circuit protected

Unregulated Converters

- No external components required
- Efficiency up to 85%

Description

The RUZ DC/DC converter offers two independent isolated outputs. Typical applications include multiple channel circuits where inter-channel isolation is also required. The /H option offers 2kVDC isolation between input and outputs. The /P option is with continuous short circuit protection on either or both outputs.

Selection Guide

Part Number	nom. Input Voltage [VDC]	Output Voltage V1 [VDC]	Output Voltage V2 [VDC]	Output Current [mA]	Efficiency typ. ⁽¹⁾ [%]	max. Capacitive Load ⁽²⁾ [µF]
RUZ-050505 (3,4)	5	5	5	200/200	70-82	470/470

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

RECOM

RUZ

2 Watt



SIP7 Isolated Dual Output



Model Numbering



Notes:

- Note3: standard part is without Continuous Short Circuit Protection add suffix "/P" for Continuous Short Circuit Protection Note4: add suffix "/H" for 2kVDC Isolation
 - or add suffix "/HP" for 2kVDC Isolation and Continuous Short Circuit Protection

Ordering Examples:

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RUZ-050505/P=
5V Input Voltage, 5V Output Voltage (V1), 5V Output Voltage (V2) with continuous short circuit protection

RUZ-122424/HP=
12V Input Voltage, 24V Output Voltage (V1), 24V Output Voltage (V2) with 2kVDC isolation and continuous short circuit protection
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IEC60950-1 certified EN60950-1 certified

RECOM DC/DC Converter

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





RUZ Series

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

PROTECTIONS							
Parameter		Туре	Value				
Short Circuit Protection (SCP)		1 second					
		continuous					
	I/P to O/P	without suffix	tested for 1 second	1kVDC			
			rated for 1 minute	500VAC / 60Hz			
Isolation Voltage ⁽⁶⁾		with suffix	tested for 1 second	2kVDC			
		"/H"	rated for 1 minute	1kVAC / 60Hz			
	0/P1 to 0/P2		tested for 1 second	1kVDC			
Isolation Resistance				$10G\Omega$ min.			
Isolation Capacitance				40pF min. / 120pF max.			
Insulation Grade				basic			
Notes:			· · · · · ·				
Note6: For repeat Hi-Pot	testing, reduce the time a	ind/or the test vo	Itage				
Note7: Refer to local wiri	ing regulations if input ove	r-current protect	ion is also required. Recommended fu	ise: T2A slow blow type			



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				
	1002001	EN60950-1:2006 + A2:2013				
EAC	RU-AT.49.09571	TP TC 004/2011				
RoHs 2+		RoHS-2011/65/EU + AM-2015/863				

RECOM DC/DC Converter

RUZ Series

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



INSTALLATION AND APPLICATION



RECOM DC/DC Converter

RUZ Series

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

PACKAGING INFORMATIONParameterTypeValuePackaging Dimension (LxWxH)tube520.0 x 16.0 x 9.0mmPackaging Quantitytube25pcsStorage Temperature RangeC-55°C to + 125°CStorage HumidityO95% 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.