Features

- Low cost
- 1:1 Input voltage range

Unregulated **Converters**

- Efficiency up to 81%
- 4kVDC/1 second isolation
- IEC/EN/UL certified

Description

The RKE/H DC/DC converters are typically used in cost sensitive general purpose power isolation and voltage matching applications. Despite their low cost, they are fully specified converters with 4kVdc isolation, industrial operating temperature range of -40°C to +85°C without derating and UL/EN certifications.

Selection Guide					
Part Number	Input Voltage [VDC]	Output Voltage [VDC]	Output Current [mA]	Efficiency typ. ⁽¹⁾ [%]	max. Capacitive Load ⁽²⁾ [µF]
RKE-0505S/H	5	5	200	75	1000
RKE-1205S/H	12	5	200	80	1000
RKE-2405S/H	24	5	200	81	1000

Notes:

Note1: Values at nominal input voltage and full load

Note2: Test by minimum Vin and constant resistor load



RKE/H







CSA/CAN 22.2 No. 60950-1 certified

UL60950-1 certified

IEC/EN60950-1 certified EN55032 compliant

Model Numbering



Ordering Examples:

RKE-0505S/H, 5Vin and 5Vout, Single Output RKE-2405S/H, 24Vin and 5Vout, Single Output

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Filter			inter	nal capacitor
Input Voltage Range		-10%		+10%
Operating Frequency			80kHz	
Minimum Load		0%		
Output Ripple and Noise	measured with 20MHz bandwidth and a 0.1µF ceramic capacitor		40mVp-p	100mVp-p

RECOM DC/DC Converter

RKE/H Series

Specifications (measured at Ta= 25°C, nominal input voltage, full load, otherwise noted)



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PROTECTIONS				
Parameter	Co	ndition	Value	
Isolation Voltage (3)	I/P to O/P	tested for 1 second tested for 1 minute	4kVDC 3kVDC	
Isolation Capacitance			75pF max.	
Isolation Resistance			$1G\Omega$ min.	
Notes	3:			

Note3: For repeat Hi-Pot testing, reduce the time and/or the test voltage



SAFETY AND CERTIFICATIONS		
Certificate Type	Report / File Number	Standard
IEC/EN General Safety	LVD1602031	IEC/EN60950-1, 2nd Edition, 2013
UL General Safety	E358085-A4	UL60950-1, 2nd Edition, 2007
CAN/CSA General Safety	E336063-A4	CSA C22.2 No. 60950-1, 2nd Edition, 2007
EAC	RU-AT.49.09571	TP TC 004/2011
RoHs 2		2011/65/EU
EMC Compliance	Condition	Standard / Criterion
· · ·	Condition	
Electromagnetic compatibility of multimedia equip- ment - Emission requirements	with external filter	EN55032, Class B
Electromagnetic compatibility of multimedia equip- ment - Emission requirements	with external filter	EN550

continued on next page

RECOM DC/DC Converter

RKE/H Series

Specifications (measured at Ta= 25°C, nominal input voltage, full load, otherwise noted)





PACKAGING INFORMATION

Packaging Dimension (LxWxH)	Tube	520 x 9.3 x 16.5mm
Packaging Quantity		25pcs
Storage Temperature Range		-55°C to +125°C

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.