

Series

Specifications (measured @ Ta= 25°C, nom. Vin (115/230VAC), full load and after warm-up unless otherwise stated)

BASIC CHARACTERISTICS					
Parameter	Cond	Condition		Тур.	Max.
Input Voltage Range (3,4)	nom. Vin	nom. Vin = 230VAC		277VAC	305VAC 430VDC
Input Current		115VAC 230VAC		47mA 30mA	
Inrush Current	cold start at +25°C	115VAC 230VAC			15A 30A
No load Power Consumption	85-305VA	85-305VAC, 47-63Hz			35mW
Input Frequency Range	AC I	AC Input			440Hz
Minimum Load (5)				2%	
Hold-up Time	115	iVAC	18ms		
Internal Operating Frequency	100% load a	100% load at nominal Vin		55kHz	
Output Ripple and Noise (6)	20MHz BW	3.3V all others			300mVp-p 250mVp-p

Notes:

Note3: The products were submitted for safety files at AC-Input operation

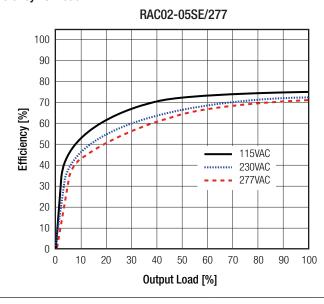
Note4: No line derating required

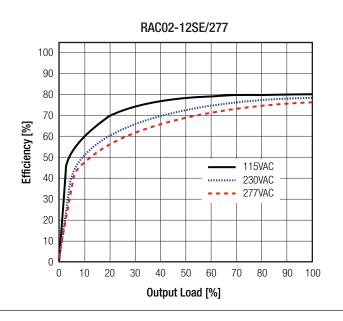
Note5: Operation below 2% load will not harm the converter, but specifications may not be met

Note6: Ripple and Noise is the maximum peak-to-peak voltage value measured at the output with a 20MHz bandwidth, at rated line voltage

at full load. And with a 47µF low-ESR electrolytic capacitor in parallel with a 0.1µF ceramic capacitor across output

Efficiency vs. Load





REGULATIONS		
Parameter	Condition	Value
Output Accuracy (7)		±6.0% max.
Line Regulation	low line to high line, full load	±1.5% max.
Load Regulation	2% to 100% load	6.0% typ.

Notes

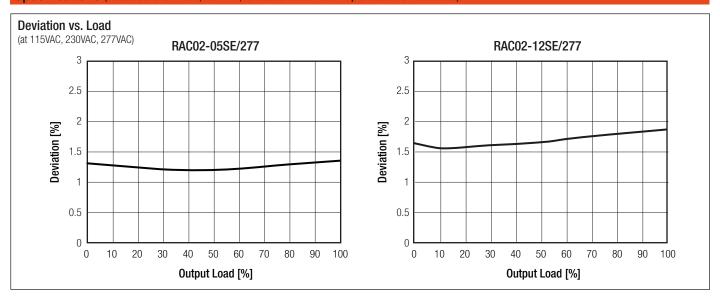
Note7: Includes initial voltage accuracy, thermal drift, line regulation and load regulation at rated input voltage and load conditions

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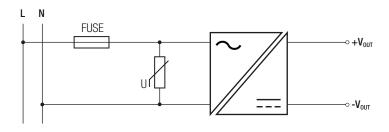


PROTECTIONS			
Parameter	Туј	oe e	Value
Short Circuit Protection (SCP)	below 1	00mΩ	continuous, automatic recovery
Over Voltage Protection (OVP)	zener dio	de clamp	110% - 140%
Over Voltage Category			OVCII
Over Current Limit			110% - 190%
Isolation Voltage	tested for 1 minute	I/P to O/P	3kVAC
Isolation Resistance			1G Ω min.
Leakage Current	85-305VAC	C, 47-63Hz	10μA max.

Notes:

Note8: Refer to local wiring regulations if input over-current protection is also required. Recommended fuse: T1A slow blow type

Note9: An external MOV is recommended. The Varistor should comply with IEC-61051-2. e.g. EPCOS S 14 Series

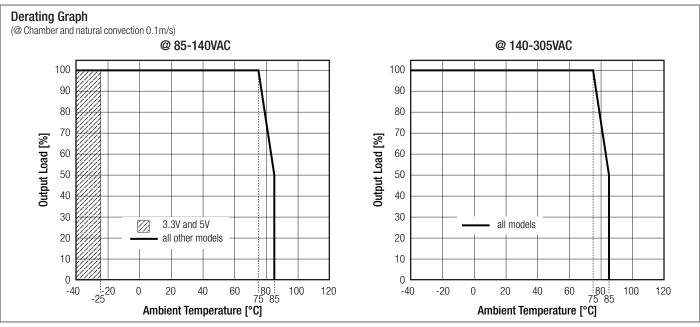


ENVIRONMENTAL				
Parameter	Conditi	Condition		Value
Operating Temperature Dange	@ patural convection 0.1m/s, 140, 200	EVAC	full load	-40°C to +75°C
Operating Temperature Range	ure Range @ natural convection 0.1m/s, 140-305VAC		efer to derating graph	-40°C to +85°C
Maximum Case Temperature				+105°C
Thermal Impedance			8.5°C/W typ.	
Operating Humidity	non-condensing		5% - 95% RH max.	
Vibration				according to MIL-STD-202G standard
MTBF	according to MIL-HDBK-217F, G.B.	+25°C	115VAC	2238 x 10 ³ hours
IVIIDI	according to Mic-HDBK-2171, d.b.	+23 0	230VAC	1670 x 10 ³ hours
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SAFETY AND CERTIFICATIONS		
Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment - General Requirments for Safety (CB Scheme)	L0339L26-CB-1-B4	IEC60950-1:2005, 2nd Edition + A2:2013 EN60950-1:2006 + A2:2013
Information Technology Equipment, General Requirements for Safety	E224736-A24-UL	UL60950-1, 2nd Edition, 2014 CAN/CSA-C22.2 60950-1, 2nd Edition, 2014
Household and similar electrical appliances - Safety - Part 1: General requirements	L0339L26-B2-L	EN60335-1:2012 + A11:2014
EAC Safety of Low Voltage Equipment	RU-AT.49.09571	TP TC 004/2011
RoHS2+		RoHS-2011/65/EU + AM-2015/863
EMC Compliance (Industrial)	Condition	Standard / Criterior
Electromagnetic compatibility of multimedia equipment – Emission Requirements		EN55032:2015, Class E
Information technology equipment - Immunity characteristics - Limits and methods of measurement		EN55024:2010
ESD Electrostatic discharge immunity test	±8kV air, ±4kV contact	EN61000-4-2:2009, Criteria E
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	EN61000-4-3:2006 + A2:2010, Criteria A
Fast Transient and Burst Immunity	AC Power Port: ±1.0kV	EN61000-4-4:2012, Criteria A
Power Magnetic Field Immunity	50Hz, 1A/m	EN61000-4-8:2010, Criteria A
Voltage Dips and Interruptions	Voltage Dips >95% Voltage Dips 30% Voltage Interruptions >95%	EN61000-4-11:2004, Criteria <i>F</i> EN61000-4-11:2004, Criteria <i>F</i> EN61000-4-11:2004, Criteria E
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013
EMC Compliance (Household)	Condition	Standard / Criterior
Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission		EN55014-1:2006+A2:2011
Information technology equipment - Immunity characteristics - Limits and methods of measurement		EN55014-2:2015
ESD Electrostatic discharge immunity test	±8kV air, ±4kV contact	IEC61000-4-2:2008, Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	IEC61000-4-3:2006 + A2:2010, Criteria A
Fast Transient and Burst Immunity	AC Power Port: ±1kV DC Output: ±0.5kV	IEC61000-4-4:2012, Criteria A



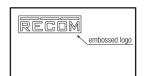
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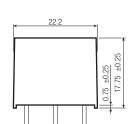
SAFETY AND CERTIFICATIONS			
EMC Compliance (Household)	Condition	Standard / Criterion	
Surge Immunity	AC Power Port:L to N ±2kV DC Output: L to N ±1kV	IEC61000-4-5:2014, Criteria B	
Immunity to conducted disturbances, induced by radio-frequency fields	3 Vr.m.s.	IEC61000-4-6:2013, Criteria A	
Voltage Dips and Interruptions	Voltage Dips >95%	IEC61000-4-11:2004, Criteria B	
	Voltage Dips 30%	IEC61000-4-11:2004, Criteria C	
	Voltage Interruptions >95%	IEC61000-4-11:2004, Criteria C	
Limits of Harmonic Current Emissions		EN61000-3-2:2014	
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013	

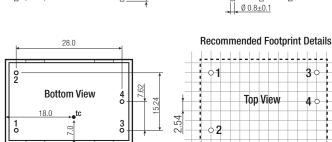
DIMENSION AND PHYSICAL CHARACTERISTICS			
Parameter	Туре	Value	
Material	case	black plastic, (UL94V-0)	
	potting	silicone, (UL94V-0)	
Dimension (LxWxH)		33.70 x 22.20 x 17.75mm	
Weight		24.5g typ.	

Dimension Drawing (mm)



33.7





Pin Connections

Pin#	Single
_ 1	VAC in (N)
2	VAC in (L)
3	-Vout
4	+Vout

PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	tube	520.0 x 37.0 x 28.0mm	
Packaging Quantity		22pcs	
Storage Temperature Range		-40°C to +85°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.