

Features

Regulated Converters

- 40W Package (50.8x11.90x40.6mm)
- 1.6kVDC Isolation
- Wide Input 2:1
- Regulated Output
- UL94V-0 Package Material
- Continuous Short Circuit Protection
- Vout Trim and ON/OFF Control Function
- Efficiency to 87%

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
REC40-481.8SRW/H	36-75	1.8	8000	80
REC40-482.5SRW/H	36-75	2.5	8000	83
REC40-483.3SRW/H	36-75	3.3	8000	85
REC40-4805SRW/H	36-75	5	8000	87
REC40-4812SRW/H	36-75	12	3333	83
REC40-4815SRW/H	36-75	15	2666	83
REC40-4824SRW/H	36-75	24	1666	84

* add suffix "CTRL" for optional Remote ON/OFF-Control

Specifications (Core Operating Area)

Input Voltage Range	2:1
Input Filter	π type
Output Voltage Accuracy	$\pm 2\%$ max.
Line Voltage Regulation	$\pm 0.5\%$ max.
Load Voltage Regulation (10% to 100% full load)	$\pm 1\%$ max.
Ripple	$\pm 1\%$
Noise	$\pm 1\%$
Trim	$\pm 10\%$
Operating Frequency	400kHz typ.
Over Power Protection	Works over 120% of rating and recovers automatically
Over Voltage Protection	Zener diode clamp
Short Circuit Protection	Hiccup mode, auto-recovery
Efficiency at Full Load	87% max.
Isolation Voltage	(tested for 1 second) 1600VDC min.
Rated Working Voltage	(long term isolation) see Application Notes
Isolation Capacitance	1000pF
Isolation Resistance	100 M Ω min.
Operating Temperature Range (Natural convection)	2:1(with derating) -25°C to +70°C (see Graph)
Storage Temperature Range	-55°C to +105°C
Case Temperature	+100°C max.

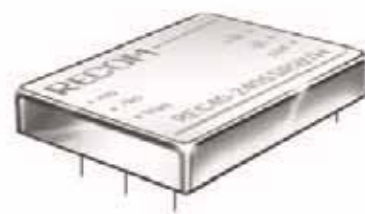
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ECONOLINE

DC/DC-Converter

REC40-SRW/H Series

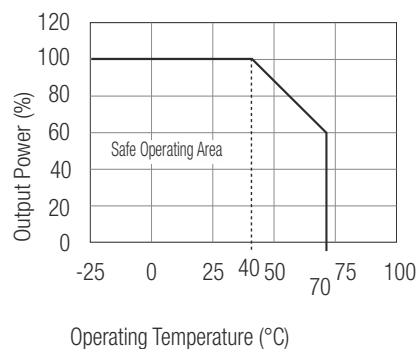
40 Watt Single Output



Designed to meet EN-60950-1



Derating-Graph (Ambient Temperature)



Specifications (Core Operating Area)

Temperature Coefficient	$\pm 0.02\%/^{\circ}\text{C}$		
Relative Humidity	95% RH		
Case Material	Nickel Plated Copper with Non-Conductive Base, Six-side Shielded		
Cooling Method	Natural convection		
Package Weight	58g		
MTBF (+25°C)	Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F	$>550 \times 10^3$ hours
(+40°C)		using MIL-HDBK 217F	187×10^3 hours

Package Style and Pinning (mm) , Wide Input 2:1

