

Features

Regulated Converters

- 30W Package (50.8x11.90x40.6mm)
- 1.6kVDC Isolation
- 4:1 Wide Input Range
- Regulated Output
- UL94V-0 Package Material
- Continuous Short Circuit Protection
- Vout Trim and ON/OFF Control Function
- Efficiency to 87%

ECONOLINE

DC/DC-Converter

REC30-S DRWZ/H Series

30 Watt Single & Dual Output



**Designed to meet EN-60950-1
UL-60950-1 Pending**

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency 24/48 (%)
REC30-xx2.5SRWZ/H	10-40, 18-75	2.5	6000	80/81
REC30-xx3.3SRWZ/H	10-40, 18-75	3.3	6000	83/85
REC30-xx05SRWZ/H	10-40, 18-75	5	6000	85/87
REC30-xx12SRWZ/H	10-40, 18-75	12	2500	83/84
REC30-xx15SRWZ/H	10-40, 18-75	15	2000	83/84
REC30-xx24SRWZ/H	10-40, 18-75	24	1250	84/84
REC30-xx05DRWZ/H	10-40, 18-75	±5	±3000	81/82
REC30-xx12DRWZ/H	10-40, 18-75	±12	±1250	83/84
REC30-xx15DRWZ/H	10-40, 18-75	±15	±1000	83/83

4:1

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

xx = 10-40Vin = 24

xx = 18-75Vin = 48

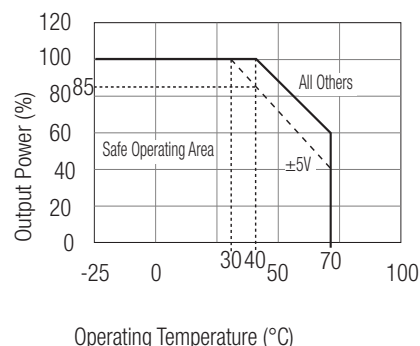
Specifications (Core Operating Area)

Input Voltage Range	4:1	
Input Filter	π type	
Output Voltage Accuracy	±2% max.	
Line Voltage Regulation	±0.5% max.	
Load Voltage Regulation (10% to 100% full load)	±1% max.	
Trim	±10%	
Ripple	2.5,3.3,5V	±100mV max.
	All Others	±1% max.
Noise	2.5,3.3,5V	±100mV max.
	All Others	±1% max.
Operating Frequency	250kHz typ.	
Over Power Protection	Works over 120% of rating and recovers automatically	
Over Voltage Protection	Zener diode clamp	
Short Circuit Protection	Hiccup, auto-recovery	
Remote On/Off	DC-DC ON	Open or $2.2V > V_r > 5V$
	DC-DC OFF	Short to 0V or $0V > V_r > 2.2V$
Remote Off input current	Nominal Vin	5mA max.
Remote Pin drive current	$V_r = 0V$	-1.3mA max.
Efficiency at Full Load	see table	
Isolation Voltage	(tested for 1 second)	1600VDC min.
Rated Working Voltage	(long term isolation)	see Application Notes
Isolation Capacitance	1000pF	
Isolation Resistance	100 MΩ min.	

Continued on next page.

RECOM

Derating-Graph (Ambient Temperature)

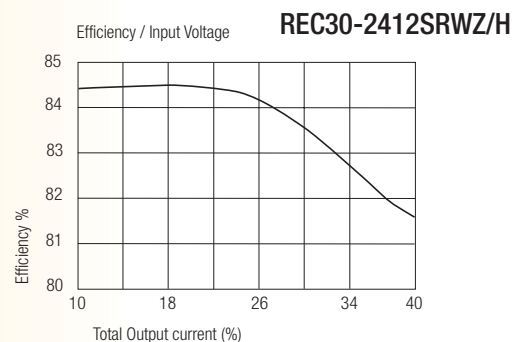
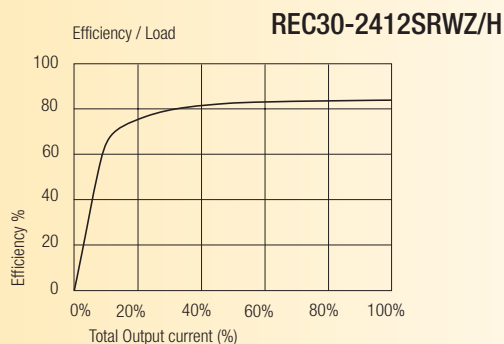
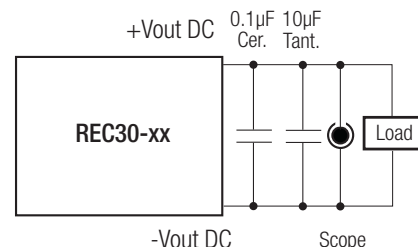


Specifications (Core Operating Area)

Operating Temperature Range (See Note 1)	-25°C to +70°C (see Graph)		
Storage Temperature Range	-55°C to +105°C		
Case Temperature	+100°C max.		
Temperature Coefficient	±0.02%/°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 x 10 ³ hours
(+40°C)		using MIL-HDBK 217F	212 x 10 ³ hours

Note 1: Natural convection. Derate to 85% when $V_{in} > 36VDC$ and $T_a = 40^\circ C$.

Noise Measurement



Package Style and Pinning (mm) , Wide Input 4:1

