

## Features

### Regulated Converters

- 30W 2" x 2" Package (50.8x50.8x21.0mm)
- 1kVDC Isolation
- Wide Input 2:1
- Regulated Output
- UL94V-0 Package Material
- Continuous Short Circuit Protection
- No External Components Required
- Six-Side Shielded Case
- 100% Burned In
- Industry Standard Package
- Remote ON/OFF and Trim
- Efficiency to 85%

### Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Input Current <sup>1)</sup> (mA)		Efficiency <sup>2)</sup> (%)
				Full Load	No Load	
2" x 2"	(VDC)	(VDC)	(mA)	Full Load	No Load	(%)
REC30-1205SRWB	9-18	5	5.000	2.637	40	79
REC30-1212SRWB	9-18	12	2.500	3.086	40	81
REC30-1215SRWB	9-18	15	2.000	3.096	38	81
REC30-2405SRWB	18-36	5	5.000	1.302	20	80
REC30-2412SRWB	18-36	12	2.500	1.470	18	85
REC30-2415SRWB	18-36	15	2.000	1.470	18	85
REC30-4805SRWB	36-72	5	5.000	651	10	80
REC30-4812SRWB	36-72	12	2.500	762	9	82
REC30-4815SRWB	36-72	15	2.000	762	9	82
REC30-1205DRWB	9-18	±5	±2.500	2.637	40	79
REC30-1212DRWB	9-18	±12	±1.250	3.125	40	80
REC30-1215DRWB	9-18	±15	±1.000	3.125	38	80
REC30-2405DRWB	18-36	±5	±2.500	1.302	20	80
REC30-2412DRWB	18-36	±12	±1.250	1.470	18	85
REC30-2415DRWB	18-36	±15	±1.000	1.470	18	85
REC30-4805DRWB	36-72	±5	±2.500	651	10	80
REC30-4812DRWB	36-72	±12	±1.250	762	9	82
REC30-4815DRWB	36-72	±15	±1.000	762	9	82

### Notes:

1 at Nominal Input Voltage.

2 at Nominal Input Voltage and Full Load.

**ECONOLINE**  
DC/DC-Converter

# REC30-S\_DRWB Series

**30 Watt**  
**2" x 2"**  
**Single &**  
**Dual Output**

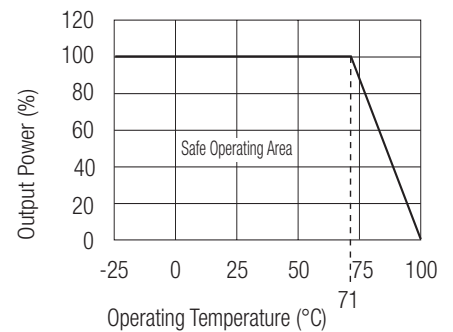


**RECOM**

## Specifications (Core Operating Area)

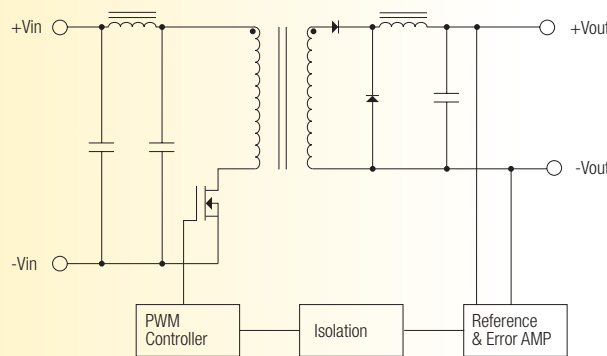
Input Voltage Range		2:1	
Output Voltage Accuracy		±2% max.	
Line Regulation (HL-LL)		±0.2% max.	
Load Regulation (for output load current change from 20% to 100%)		±0.2% max.	
Over Voltage Protection		Built-In	
External Trim Adjustment Range		±10%	
Ripple and Noise (0,1µF capacitor on output, 20MHz BW)		100mVp-p max.	
Switching Frequency at Full Load		100kHz typ.	
Input Filter		Pi Network	
Efficiency at Full Load		75% min.	
Isolation Voltage	(tested for 1 second)	1.000VDC min.	
Rated Working Voltage	(long term isolation)	see Application Notes	
Isolation Capacitance		2500pF max.	
Isolation Resistance		1 GΩ min.	
Short Circuit Protection		Continuous	
Operating Temperature (free air convection)		-25°C to +71°C (see Graph)	
Storage Temperature Range		-55°C to +100°C	
Relative Humidity	MSL Level 1	95% RH	
Case Material		Six-Side Shielded Case	
Package Weight		110 g	
MTBF (+25°C)	} Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F	700 x 10 <sup>3</sup> hours
(+71°C)		using MIL-HDBK 217F	560 x 10 <sup>3</sup> hours

## Derating-Graph (Ambient Temperature)

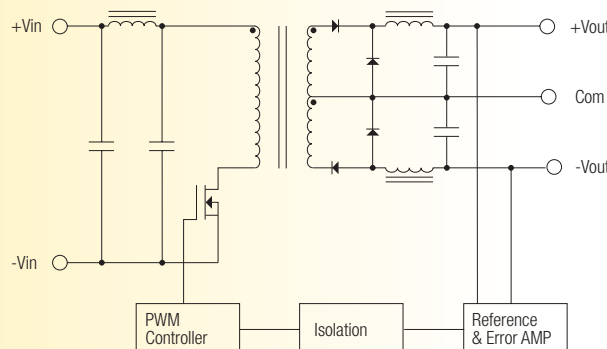


## Simplified Schematic

### Single Output



### Dual Output

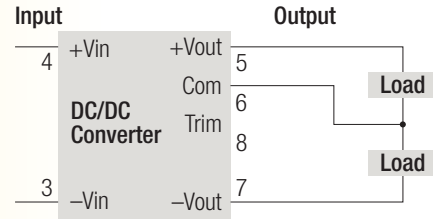
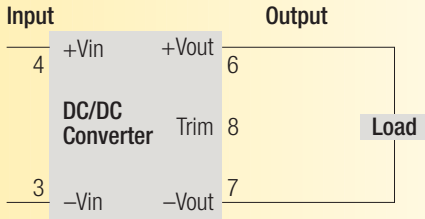


**Typical Characteristics**

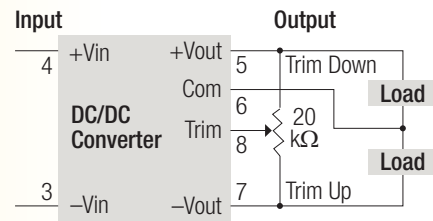
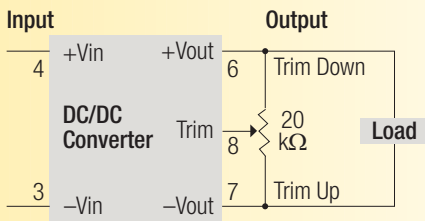
**Single Output**

**Dual Output**

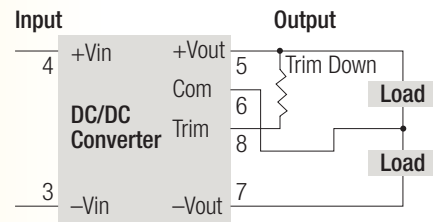
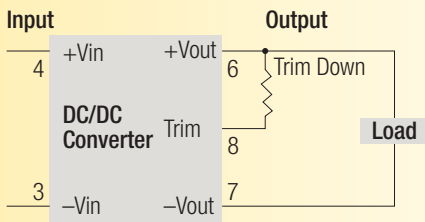
**Fixed Voltage Output**



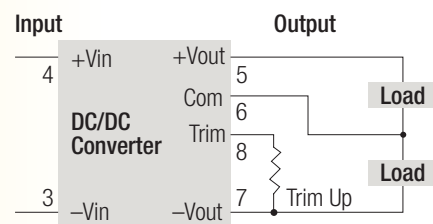
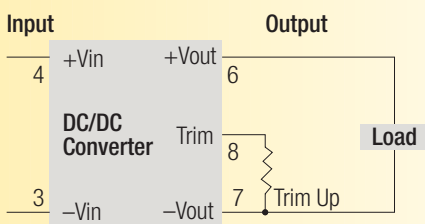
**Trim Connections Using a Trimpot**



**Fixed-Value Trim Down Resistor**

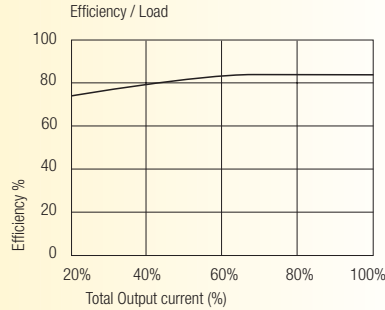


**Fixed-Value Trim Up Resistor**



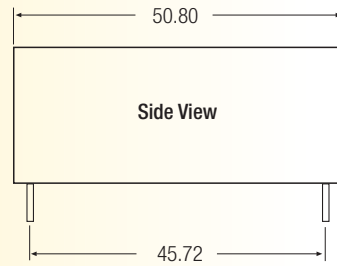
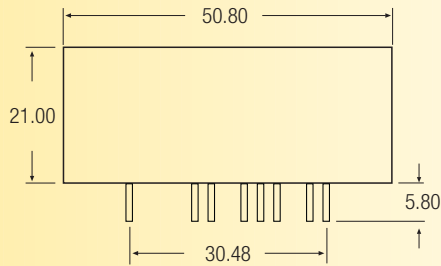
**Typical Characteristics**

## REC30 - types

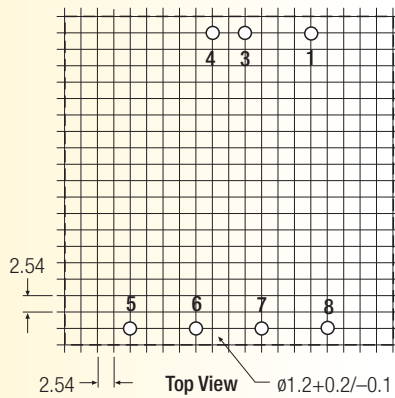
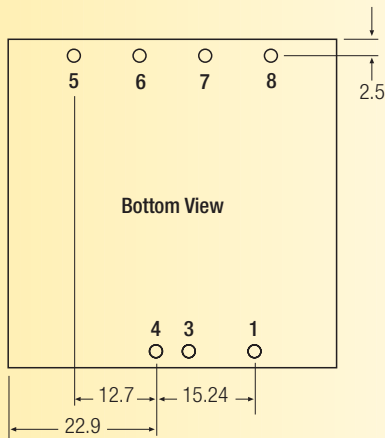


**Package Style and Pinning (mm) 2" x 2", Wide Input 2:1**

2" x 2" PIN Package



**Recommended Footprint Details**



**Pin Connections**

Pin #	Single	Dual
1	Remote On/Off	Remote On/Off
3	-Vin	-Vin
4	+Vin	+Vin
5	No Pin	+ Vout
6	+ Vout	Com
7	- Vout	- Vout
8	Trim	Trim

XX.X ± 0.5 mm  
XX.XX ± 0.25 mm

**Remote On/Off Control**

Control Input	Pin 1	Control Common	Pin 3
Control Voltage		Converter Shutdown Idle Current	10mA
ON	> +2.5VDC or Open Circuit	Logic Compatibility	CMOS or Open Collector TTL
Off	> +0.8VDC or Jumper to Pin 3		

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