



Multi-stage converter/charger
with electrical panel

Quick battery charging and safer DC power distribution for RVs

The Xantrex™ TRUECHARGE™ RV (AC to DC converter) is a complete family of advanced converter/chargers designed for today's power-hungry RV. With up to 80 amps of output, the TRUECHARGE RV features true three-stage battery charging for fast recharge times and longer battery life. The TRUECHARGE RV is the first converter on the market with power factor corrected charging (PFC), significantly reducing AC power draw, while making more power available to receptacle loads and air conditioning.

Replaceable fuses, standard footprint sizes, and accessible terminal buses ensure the TRUECHARGE RV is easy to install and service. The TRUECHARGE RV has been designed and tested to meet the stringent requirements of UL 458 and FCC (Class B) regulations. This ensures it installs safely into any RV and runs quietly, minimizing interference with radios, televisions and wireless devices.

The TRUECHARGE RV is available with an optional class CTL compliant AC/DC electrical panel for a truly integrated power distribution solution. The panel and converter can be mounted together or separately for maximum flexibility when selecting an installation location. Featuring up to 10 AC circuits and 11 DC circuits, this panel can be configured to safely accommodate any electrical set-up required.

Converter Features

- ▶ Three models with 40, 60 or 80 amps DC output
- ▶ Microprocessor-controlled, multi-stage battery charger
- ▶ Power factor corrected charging significantly reduces AC draw needed for charging
- ▶ Easy, three-lead connection from converter to panel, and converter to battery
- ▶ Wide range of input voltages and frequencies (90-140 Vac, 50-70Hz)
- ▶ Recharges "dead" batteries (0 volts)
- ▶ Input and output ventilation located on same side for maximum cooling and space saving installation
- ▶ Ultra-quiet fan operation allows cabin-vented installations without fan noise

Electrical Panel Features

- ▶ Two models available with 30 or 50-amp distribution (identical footprints)
- ▶ Both AC and DC connections in one panel for fast and easy installation
- ▶ Stackable panel and converter lock together into a single unit for serviceable, cabin-facing installations
- ▶ Accepts dual "stab-lok" style double breakers for maximum number of AC output branches at minimal cost (eight for 30-amp panel, 10 for 50-amp panel)
- ▶ Accepts 11 standard auto style DC fuses
- ▶ Includes seven AC knockouts and seven DC knockouts. All knockouts can be opened to either 1/2 inch trade size or 3/4 inch nested
- ▶ Removable DC fuse board for ease of wiring

TRUECHARGE™ RV

40A

60A

80A

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Xantrex AC to DC Converter (TRUECHARGE RV)

Converter Specifications

Model	TRUECHARGE RV - 40A	TRUECHARGE RV - 60A	TRUECHARGE RV - 80A
AC Input			
AC input current (at rated output)	6 Aac	9 Aac	12 Aac
Nominal input voltage	120 Vac, 60 Hz		
Normal operating input voltage	108 Vac – 130 Vac		
Min. operating input voltage	90 Vac		
Max. operating input voltage	140 Vac		
Power factor (rated output, nominal input)	>= 0.95		
Safe (non-operating) input voltage range	0 – 150 Vrms		
Frequency	50 – 70 Hz		
DC Output			
Recommended maximum battery bank size	220 Ah	220 Ah	400 Ah
Output current	40 Adc	60 Adc	80 Adc
Current limit (maximum)	44A	64 A	84 A
Nominal output voltage	3.5 Vdc (float charge) 14.2 Vdc (bulk/absorption charge)		
Load regulation ^a	1.5% at terminals of TrueCharge RV		
Line regulation ^b	1.5%		
No load voltage accuracy	0.1 Vdc		
Efficiency at nominal output	>= 85%		
Battery draw when turned off	< 2 mA		
Nominal temperature	30 °C		
Operating temperature range ^c	14 °F to 140 °F (-10 °C to 60 °C)		
Storage temperature range	-4 °F to 176°F (-20 °C to 80 °C)		
Dimensions (H x W x L)	4 3/4 x 7 1/8 x 11 13/16 " (120 x 180 x 300 mm)		
Weight	7.9 lb (3.6 kg)	8.2 lb (3.7 kg)	8.3 lb (3.8 kg)
Part Numbers			
OEM 4 pack	810-4012-00	810-6012-00	810-8012-00
Aftermarket/Service single pack	810-4012-10	810-6012-10	810-8012-10

(a) Line regulation is the converter's ability to maintain a constant output voltage as the line (input) voltage changes.

(b) Load regulation is the converter's ability to maintain a constant output voltage as the load current changes.

(c) Full ratings to 30 °C. Automatic output derating feature from 30 °C to 60 °C, above 60 °C unit may shut down

Panel Specifications

Model	30 A AC/DC panel	50 A AC/DC panel
AC fusing (Main)	1 x Cutler Hammer/ Bryant/Westinghouse Type BR Series ITE Gould QP Series. Max rating 30 A	2 x Cutler Hammer/ Bryant/Westinghouse Type BR Series ITE Gould QP Series. Max rating 25 A dual phase (ganged) 50 A split phase
AC fusing (Branch)	8 x Cutler Hammer/ Bryant/Westinghouse Type BR Series ITE Gould QP Series. Max rating 20 A	10 x Cutler Hammer/ Bryant/Westinghouse Type BR Series ITE Gould QP Series. Max rating 20 A
DC fusing	11 x Littelfuse Type 257 (or equivalent). Max rating 20 A	
Operating temperature range	14 °F to 140 °F (-10 °C to 60 °C)	
Dimensions		
Opening (stand alone) (H x W x D)	8 x 12 x 3 7/16" (203 x 305 x 87 mm)	
Opening (with converter) (H x W x D)	12 1/8 x 12 x 4 3/4" (308 x 305 x 121 mm)	
Face dimensions - Panel & Converter (cover on)	13 1/16 x 13 15/16" (332 x 354 mm)	
Face dimensions - Panel only (cover on)	13 1/16 x 8 13/16" (332 x 224 mm)	
Weight	3.5 lb (1.59 kg)	
Part numbers		
OEM 4 pack	810-0030-00	810-0050-00
Aftermarket/Service single pack	810-0030-10	810-0050-10

Regulatory Approvals

UL458 (Panel board designed to meet UL67 when installed with converter) CSA C22.2 No. 107.1, FCC part 15B (Class B), ICES-0003 (Class B)

Note: Specifications subject to change without notice.