

TRTC-2005-N1/N2



LINE	INTERACTIVE TOPOLOGY
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Functions	
Brownout Protection	This unit boosts the output voltage (or transfers to Battery) during Brownout or Low input line conditions and returns to Normal when input power stabilizes and returns to Normalcy. These values for Transfer / Retransfer, To / From Battery / Boost mode are user programmable
Generator Compatibility	Generator mode allows for more variations in input voltage and frequency for use with an AC generator
Battery Charger 10A	PFC switch-mode charger is temperature- compensated (-2.5 to -5 mV/C/Cell) with automatic shut off above 50 deg C
Inverter Mode	Capable of running continuously in inverter mode
Inverter Mode Current Limit	Continuous electronic current limit is provided
Measurements available for remote monitoring	<ul> <li>Input and output voltages</li> <li>Input line frequency</li> <li>Battery voltage and current</li> <li>Battery and heat sink temp</li> </ul>
Mechanical Specifica	tions
Dimensions	TRTC-2005-N1/N2:
(H x W x D)	133 mm x 432 mm x 254 mm 3U 5.3" x 17.0" x 10"
(H x W x D) Weight	
	3U 5.3" x 17.0" x 10" TRTC-2005-N1/N2:
Weight	3U 5.3" x 17.0" x 10" TRTC-2005-N1/N2: 21 kg / 46 lbs 3 Position Terminal Block OR Anderson PP45 Quick connector OR
Weight Input Connection	3U 5.3" x 17.0" x 10" TRTC-2005-N1/N2: 21 kg / 46 lbs 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 3 Position Terminal Block OR Anderson PP45 Quick connector OR
Weight Input Connection Output Connection	3U 5.3" x 17.0" x 10" TRTC-2005-N1/N2: 21 kg / 46 lbs 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket
Weight Input Connection Output Connection Mounting	3U 5.3" x 17.0" x 10" TRTC-2005-N1/N2: 21 kg / 46 lbs 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 19" (483 mm) or 23" (584 mm) rack/shelf mount Microprocessor controlled, DC Fan
Weight Input Connection Output Connection Mounting Cooling (Ext. Fan)	3U 5.3" x 17.0" x 10" TRTC-2005-N1/N2: 21 kg / 46 lbs 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 19" (483 mm) or 23" (584 mm) rack/shelf mount Microprocessor controlled, DC Fan TRTC-2005-N1/N2: 48VDC
Weight Input Connection Output Connection Mounting Cooling (Ext. Fan) Audible Noise Level	3U 5.3" x 17.0" x 10" TRTC-2005-N1/N2: 21 kg / 46 lbs 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 19" (483 mm) or 23" (584 mm) rack/shelf mount Microprocessor controlled, DC Fan TRTC-2005-N1/N2: 48VDC <40 dBA
Weight Weight Input Connection Output Connection Mounting Cooling (Ext. Fan) Audible Noise Level Operating Temperature	3U 5.3" x 17.0" x 10" TRTC-2005-N1/N2: 21 kg / 46 lbs 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 3 Position Terminal Block OR Anderson PP45 Quick connector OR IEC socket 19" (483 mm) or 23" (584 mm) rack/shelf mount Microprocessor controlled, DC Fan TRTC-2005-N1/N2: 48VDC <40 dBA -37° C to + 74°C / -35° F to +165° F

Electrical Specification	S
Output Apparent Power	TRTC-2005-N1/N2:
	2000VA (Inverter Mode)
	2000VA (Line Mode)
Output Active Power	TRTC-2005-N1/N2: 2000W
Inverter Mode and	
Line Mode	
Power Factor	1.0
Input Frequency +/- 3Hz	120V: 60Hz
Output Frequency +/- 0.3Hz	220/230/240V: 50/60Hz
Input Voltage Range	120V: 85 to 150 VAC
	User programmable
	220V: 168 to 275 VAC User programmable
	230V: 175 to 287 VAC
	User programmable 240V:183 to 300 VAC
	User programmable
Output Voltage	120/220/230/240 VAC
	(Tolerances are User programmable)
Inverter Mode	120/220/230/240 VAC+/-5%
Maximum Input Current	120V:
	TRTC-2005-N1: 30A
	220/230/240V:
	All Models: 20A
Transformer	Linear (Non-Isolated)
Transfer Time UPS	4 to 10 ms
PTS	<30
TOTAL	<65
Inrush Current	Load Dependent
Output Waveform THD	< 3 % (Resistive Load)
Output Waveform THD Load Crest Ratio	< 3 % (Resistive Load) 3:1
Load Crest Ratio	3:1
Load Crest Ratio Efficiency, Line Mode Efficiency, Inverter Mode Nominal Battery	3:1 > 95% (Resistive Load)
Load Crest Ratio Efficiency, Line Mode Efficiency, Inverter Mode	3:1 > 95% (Resistive Load) > 80% (Resistive Load)
Load Crest Ratio Efficiency, Line Mode Efficiency, Inverter Mode Nominal Battery	3:1 > 95% (Resistive Load) > 80% (Resistive Load)
Load Crest Ratio Efficiency, Line Mode Efficiency, Inverter Mode Nominal Battery String Voltage	3:1 > 95% (Resistive Load) > 80% (Resistive Load) TRTC-2005-N1/N2: 48VDC
Load Crest Ratio Efficiency, Line Mode Efficiency, Inverter Mode Nominal Battery String Voltage Step Load Response	3:1 > 95% (Resistive Load) > 80% (Resistive Load) TRTC-2005-N1/N2: 48VDC 1 Cycle Full recovery. Single pole circuit breaker for input 120VAC:
Load Crest Ratio Efficiency, Line Mode Efficiency, Inverter Mode Nominal Battery String Voltage Step Load Response	3:1 > 95% (Resistive Load) > 80% (Resistive Load) TRTC-2005-N1/N2: 48VDC 1 Cycle Full recovery. Single pole circuit breaker for input 120VAC: TRTC-2005-N1: 30A
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Note: De-rate operating temperature above 4900 ft (1500m) by 2°C per 1000 ft (300m). Due to ongoing product improvements, specifications are subject to change without notice.