



JELIZED TRAITE UPS // BBS 2000VA / 2000W High Power BBS

Traffic control and signal equipment consistently experience power interruptions. The Marathon Power Ruggedized Traffic UPS series are maximum performance systems suitable for a wide range of transportation applications and extreme temperature environments. Designed for extended run-times, these units also feature temperaturecompensated charging to maximize battery life in harsh environments. The units are extremely versatile and fully programmable to give complete control of system programming and data acquisition. They can also be customized to meet the requirements of your transportation application, making our units the most versatile battery back-up solution for traffic control and public safety.

Our largest model in the series is a 2000VA / 2000 watt model with a 48VDC bus that is designed for today's modern traffic cabinets and the smaller loads that are now prevalent with the use of LED lighting for signals. The unit is contained in a rugged, low profile 3U, rack- or shelf-mount chassis and has 4-line LCD panel to display various data, parameters and settings. There is also a 12 amp internal charger to ensure that larger battery strings are recharged in an appropriate amount of time.

FEATURES & BENEFITS

- Line Interactive Topology
- Backlit 4-line LCD Display and LED indicators.
- 12A selectable temperature-compensated charger.
- Recessed Anderson Powerpole connectors.
- Fits in all types of traffic enclosures, control panels and custom pedestals.
- Low harmonic AC sine wave output in backupmode.
- Fully programmable AC threshold voltages.
- Transient voltage protection from damaging spikes & surges.
- External connections accessible from front panel.
- Six fully programmable dry contacts for greater control.
- Remote access via RS-232, USB & Network.
- □ Time / Date stamp of events and alarms up to 100 events.

APPLICATIONS

- Traffic Controls
- Signal Equipment
- Transportation Equipment
- Automated Parking Facilities
- Electronic Tolls
- Transportation Signs



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in Marathon Power Inc. Marathon Power 2538 E. 54th Street Huntington Park, CA 90255 • 310-689-2328 sales@marathon-power.com • marathon-power.com

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WE GO THE DISTANCE FOR YOU

LINE INTERACTIVE TOPOLOGY

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	 Input and output voltages Input line frequency Battery voltage and current Battery and heat sink temp
Machanical Enacifica	tions
Mechanical Specifica	uons
Dimensions (H x W x D)	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm 3U 5.3" x 17.0" x 10"
Dimensions	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm
Dimensions (H x W x D)	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm 3U 5.3" x 17.0" x 10" TRTC-2005-N1/N2:
Dimensions (H x W x D) Weight	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm 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
Dimensions (H x W x D) Weight Input Connection	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm 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
Dimensions (H x W x D) Weight Input Connection Output Connection	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm 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
Dimensions (H x W x D) Weight Input Connection Output Connection Mounting	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm 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
Dimensions (H x W x D) Weight Input Connection Output Connection Mounting Cooling (Ext. Fan)	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm 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
Dimensions (H x W x D) Weight Input Connection Output Connection Mounting Cooling (Ext. Fan) Audible Noise Level	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm 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
Dimensions (H × W × D) Weight Input Connection Output Connection Mounting Cooling (Ext. Fan) Audible Noise Level Operating Temperature	TRTC-2005-N1/N2: 133 mm x 432 mm x 254 mm 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

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.

PART NUMBER: TRTC-2005-N1



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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					
Output Voltage	120/220/230/240 VAC				
Inverter Mode	(Tolerances are User programmable) 120/220/230/240 VAC+/-5%				
Movimum Input Current					
Maximum Input Current	120V:				
	TRTC-2005-N1: 30A				
	220/230/240V: All Models: 20A				
	All Models. 20A				
Transformer	Linear (Non-Isolated)				
Transfer Time					
UPS PTS	4 to 10 ms <30				
TOTAL	<65				
Inrush Current	Load Dependent				
Output Waveform THD	< 3 % (Resistive Load)				
Load Crest Ratio	3:1				
Efficiency, Line Mode	> 95% (Resistive Load)				
Efficiency, Inverter Mode	> 80% (Resistive Load)				
Nominal Battery	TRTC-2005-N1/N2: 48VDC				
String Voltage					
Step Load Response	1 Cycle Full recovery.				
Over current Protection	Single pole circuit breaker for input				
	120VAC:				
	TRTC-2005-N1: 30A				
	220/230/240 VAC:				
	All Models: 20A				
	DC Bus:				
	DC Bus: 60Amp Circuit Breaker				
	60Amp Circuit Breaker				