TRC Technology
PURE ENERGY SOLUTIONS

High Frequency Chargers

Technical Specification
TRC 24V 25A PRO IP66



Intelligent design for charging AGM, GEL, Flooded and Lithium batteries, the is TRC 24V 25A PRO IP66 available in on- and off-board configurations. Optional CAN bus communication ensures seamless machine integration and AC/DC cabling is completely customizable.

High Reliability
Engineered using design for reliability.Validated for long service life in harsh operating conditions. Tested to perform reliably and durably in automotive applications. Manufactured in a world class facility specializing in high reliability solutions.

Premium charging Quality
Charge profiles to precisely charge AGM, GEL,Flooded and Li-ion batteries. Developed in PowerFirst's battery lab to balance charge time,battery life and application requirements.

USB datalog & Machine Integration
Assists machine troubleshooting with built- in charge cycle tracking. Download data / upgrade software through USB host port. Optional CAN bus communication enables deep machine integration, diagnostics and control.

Global + Efficient
Capable of operating reliably on any single-phase grid worldwide.High-efficiency performance for electricity savings and shorter charge times. Active cooling enables optimal peak performance.

Additional cert

DOE

on mark

RoHS

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DC Output	24 VDC
Maximum DC output voltage	24V
Maximum DC output current	25 A
Maximum DC output power	750 W
Maximum C3 interlock current	7 A
Battery type	Lead acid (wet / AGM / gel), lithium
Reverse polarity	Electronic protection with auto-reset
Short circuit	Electronic current limit

AC input voltage range	85-270 VAC	
Nominal AC input voltage	100-240 VAC	
Nominal AC input frequency	50 / 60 Hz	
Maximum AC input current	14.5 A	
Nominal AC input current	8.5 A @ 100 VAC	7 A @ 120 VAC
	3.7 A @ 230 VAC	3.5 A @ 240 VAC
Power factor	>0.99 @ 120 VAC	>0.98 @ 230 VAC

Regulatory	
Efficiency	90% at full load, 120 VAC, 48 VDC | 92% at full load, 240 VAC, 48 VDC California Energy Commission (CEC) compliant
Safety	UL1564, CSA 107.2, EN 60335-2-29
Emissions	FCC Part 15 / ICES 003 Class A, EN55011, EN 61000-6-4
Immunity	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2

Mechanical	
Dimensions	L196 x W170 x H155.3 mm
Weight	4.1 kg
AC input connector	IEC320 / C14 (requires country-specific cord)
DC output connector	M6 threaded fasteners for ring terminals (field replaceable)
Service port	Sealed (IP66) USB 2.0 Host Port (Type A) with dust cover
Mounting holes	6.4mm (1/4") diameter slots
Cooling	Convection cooling

Environmental		
Enclosure	IP66 (NEMA4)	
Operating temperature	-10°C to +65°C	Derated at >40°C
Storage temperature	-40°C to +85°C	

Highlighted Features:

- Optional CAN bus, RS485, I²C, Wi-Fi, Bluetooth communication for machine integration or lithiumBMS.
- User friendly LED indicators for AC source, batterystatus, charging, error. Field programmable with up to 30 charge profiles
- Auto-recharge for low voltage in maintenance mode
- OEM customizable & field replaceable AC/DC cabling
  Additional portable handle available

PRODUCT DRAWING

