WHF HIGH FRQUENCY CHARGERS

24V 80A | 36V 50A | 48V 40A

Global Replacement Warranty 2 years CLAIM<0.1%





WHF4850

ORIGINAL INNOVATION | SATISFACTION GUARANTEED SATISFACTION | CERTIFIED ECO

Intelligent design for charging AGM, GEL, Flooded and Lithium batteries, the **WHF** Charger is available in on- and off-board configurations. Optional CAN bus communication ensures seamless machine integration and AC/DC cabling is completely customizable.

Main applications:

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.

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.

Premium charging Quality

Charge profiles to precisely charge AGM, GEL, Flooded and Li-ion batteries. Developed in a special battery lab to balance charge time,battery life and application requirements.

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.

Intertek | CE | CB | UKCA | BC | DOE | RoHS

Additional certifications can be pursued based on market demand

WHF4850 Charger Specifications

DC Output	24 VDC	36 VDC	48 VDC
Maximum DC output voltage	36 V	54 V	72 V
Maximum DC output current	80 A	50 A	40 A
Maximum DC output power	2400 W		
Deep discharge recovery (minimum voltage)	16 V	24 V	32 V
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		
AC input voltage range	85-264 VAC	
Nominal AC input voltage	100-240 VAC	
Nominal AC input frequency	50 / 60 Hz	
Maximum AC input current	27 A	
Nominal AC input current	24 A @ 100 VAC	12 A @ 230 VAC
Power factor	>0.99 @ 120 VAC	>0.98 @ 230 VAC

Regulatory	
Effciency	90% at full load, 120 VAC, 48 VDC | 92% at full load, 240 VAC, 48 VDC
Safety (LVD)	UL1564, CSA 107.2, EN 60335-2
Emissions (EMC)	EN 61000-6-4, EN55014
Immunity (EMC)	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2

Mechanical	
Dimensions	L306 x W297 x H143 mm
Weight	15 kg
AC input connector	3*10 AWG wire
DC output connector	Anderson S120 APP, customizable
Service port	CAN or RS 485
Mounting holes	7.0mm (1/4") diameter slots
Cooling	Active cooling with fan

Environmental		
Enclosure	IP21	
Operating temperature	-10°C to +45°C	Derated at >40°C
Storage temperature	-40°C to +85°C	

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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

ISO 9001 | ISO 14001 | IATF 16949:2016 | CSR | ISO 45001:2018

