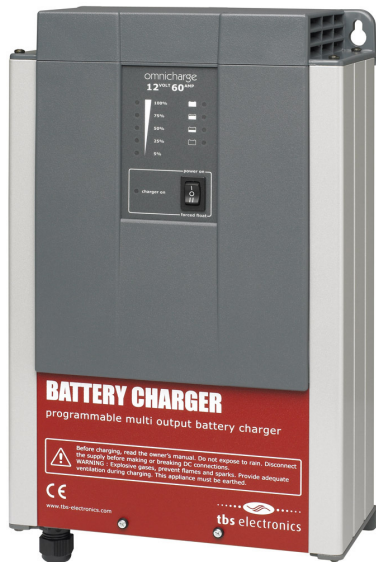


Description



The Omnicharge 12-40, 12-60, 24-20 and 24-30 are fully programmable, automatic battery chargers designed for professional applications.

Combining the latest technologies and the best available parts with years of power electronics design expertise, the Omnicharge battery chargers will deliver long life performance even in the most demanding applications. A unique active rectifier output stage ensures unmatched efficiency figures. Combined with active PFC, the Omnicharge battery chargers are very energy efficient. This will reduce running costs and guarantees a maximum charge current per AC Watt.

All Omnicharge models are equipped with advanced temperature compensated 4 stage charging programs. Besides the standard Flooded, GEL and AGM charge programs, users are also allowed to create a custom charging program for their specific battery, with the TBS "Dashboard" software. The standard available TBSLink port enables remote control and readout via the optional TBS Universal Remote Panel.

All Omnicharge units are easy to install and come standard with temperature sensor and a very clear installation and operating instruction manual.

Features

- ▶ Two battery outputs
- ▶ Robust industrial design
- ▶ Designed for continuous duty charging
- ▶ Very efficient
- ▶ Universal power factor corrected auto ranging AC input
- ▶ No charge current derating at 115VAC input
- ▶ Protected against battery failure, high temperature, overload, short circuit, low input voltage and reverse polarity (fuse)
- ▶ Multistage intelligent charging programs
- ▶ Programmable charging programs up to 8 stages
- ▶ Protects the battery from being overcharged
- ▶ Variable speed fan for silent operation
- ▶ Remote on/off capability
- ▶ Alarm relay (optional Alarm Output Expander available)
- ▶ Remote control capability via TBSLink
- ▶ Easy to access connection bay for installing AC-, DC and control wiring
- ▶ Temperature sensor included
- ▶ CE certified
- ▶ 24 month warranty

Applications

- ▶ Recreational vehicles
- ▶ Maritime applications
- ▶ Industrial systems
- ▶ Mobile entertainment systems
- ▶ Remote homes

Technical specifications

Parameter	OC12-40	OC12-60	OC24-20	OC24-30
AC input voltage	100 – 260V / 50Hz - 60Hz (auto ranging)			
Power factor	≥ 0.95			
Maximum input current (230V / 115V)	3A / 6A	4.5A / 9A	3A / 6A	4.5A / 9A
Full load efficiency	88%	88%	89%	89%
Number of outputs	2 (one full current and one 4A output)			
Nominal output voltage	12V	12V	24V	24V
Total output current (Aux.)	40A (4A max.)	60A (4A max.)	20A (4A max.)	30A (4A max.)
Standard charge program	IUoUoP, 4-stage with temperature compensation			
Standard bulk stage voltage (@ 25°C)	14.4V	14.4V	28.8V	28.8V
Standard float stage voltage (@ 25°C)	13.5V	13.5V	27.0V	27.0V
Battery drain current when charger is off	< 5mA			
Temperature range (ambient)	Operating : -20°C to +50°C / Storage : -40°C to +80°C (<95% hum.)			
Protections against	Short circuit, overload, high temperature, battery failure, low AC input voltage, reverse polarity (fuse) and battery overcharging			
Indications	Power on, output current bar, state of charge bar, short circuit/overload, high temperature, battery failure, low AC input			
DC output connection	Two M8 studs (output 1), Screw terminal connector (output 2)			
AC input connection	Screw terminals			
Enclosure body size (L x W x H)	351 x 210 x 114mm			
Total weight	5.5 kg			
Protection class	IP21 (when mounted in upright position)			
The charger complies with the following standards	CE marked meeting EMC directive 2004/108/EC and LVD 2006/95/EC complying with EN60950, EN60335-2-29			
Accessories	Temperature sensor 5m (included), TBS Universal remote panel (optional), TBSLink to USB interface (optional), Alarm Output Expander (optional), TBS "Dashboard" software (free)			

Note: the given specifications are subject to change without notice.

Dimensions

