FAST CHARGER/OPPORTUNITY CHARGE

FAST BATTERY CHARGERS

- OPPORTUNITY CHARGE
- MAXIMISE BATTERY LIFE
- 5 YEAR WARRANTY

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APPLICATIONS

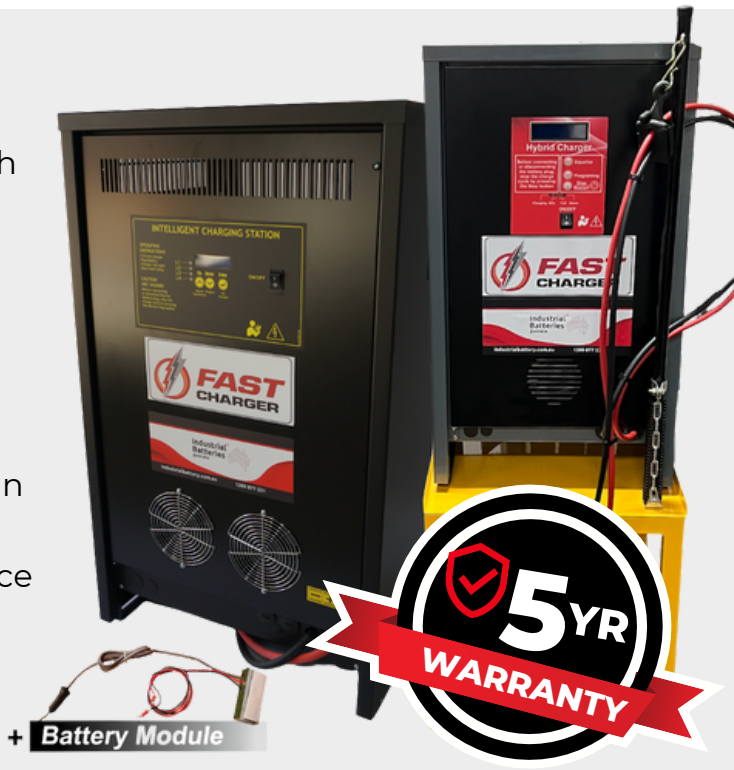
This premium charger suits all standard, opportunity and fast charging applications.

Charging the battery during down periods throughout the day at a controlled and increased rate of charge. This keeps a high state of charge in your forklift battery perfect for multiple shifts operations and can potentially remove second shift battery requirements.

Each charge cycle effectively provides a controlled 'fast charge' to the battery to increase usable battery capacity, resulting in much longer battery run times.

FEATURES:

- Rapid charging time 25-40% (start rate)
- Integrated closed loop communication with optional Fast charge Battery Module
- Battery to charger communication for complete Battery temperature control and protection
- 5 Year Manufacturer's warranty
- Extend daily Battery run times
- Extremely efficient and robust hybrid design
- Suits multi-shift operations
- Integrated and programmable user interface
- Automatic equalisation and refresh
- Highly efficient charge profiles to suit AGM, Gel, Lead Acid and Lithium Ion Industrial Batteries



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CEIL TRUSTED BATTERY SYSTEMS

TECHNICAL INFORMATION

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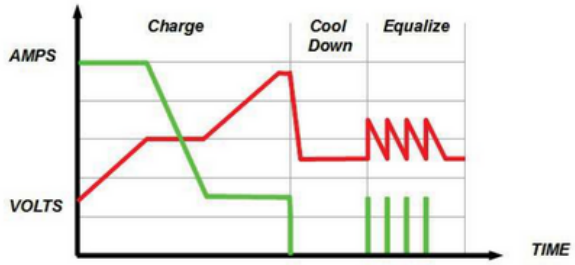
Product Specifications

AC INPUT	
STANDARD VOLTAGES	Three-phase 400, 415 VAC ± 10% Frequency 50Hz
EFFICIENCY	>90% (*)
POWER FACTOR	Three-phase models >97% (*)
DC OUTPUT	
STANDARD VOLTAGES	Nominal battery voltages from 24V to 80 VDC.
CURRENT RATINGS	From 60A to 320A.
CHARGING CURVE	Completely programmable, can support batteries of any type, voltage, capacity Programmable Weekly Equalization/Maintenance Mode Manual Desulphation/Recovery cycle Programmable off-peak energy hours 
PROTECTION	
WRONG BATTERY AND REVERSE POLARITY	If the battery voltage is outside the acceptable limits, or the polarity is reversed, the charger remains in stand-by mode and gives error/warning message.
ELECTRONIC OVERLOAD PROTECTION	Complete protection in case of output short circuit or overload.
ANTI-ARCING	**OPTIONAL**: Anti-arcing protection in case of battery disconnection while the charge is in progress. (Auxiliary pins required in the DC connector)
POWER-ON SELF-TEST	Every time the unit is powered, an automatic self-test of the power electronics and the control boards is executed in less than 10 seconds. In case of fault, the unit remains in safe stand-by mode and gives fault messages.
BLACK-OUT OF THE AC INPUT	The charger features an intelligent management of the AC input black-outs. When a black-out of the AC input occurs, all the data related to the charge cycle that was in progress are saved in the Charge History Logger, and remains available for future review. When the AC input is restored, the charger restarts from the exact point of interruption, and it completes the charge cycle normally.

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	The charger adds a random delay on start (from 3 to 20 seconds). When many chargers are connected to the same AC source, this feature prevents all the chargers from turning on simultaneously and causing a high AC input current spike.
AUTOMATIC SHUTDOWN ON BATTERY DISCONNECTION	If the battery is disconnected while the charge is in progress, the charger turns-off automatically within 3 seconds and a specific message is saved in the Charge History Log.
SAFETY TIMER	An independent safety timer turns the charger off in case of malfunction of the main control unit.
MECHANICAL AND ENVIRONMENTAL	
DIMENSIONS (W x H x D mm)	CABINET G1 500x900x440 CABINET G2: 620x1050x520 CABINET IP54 550x1000x490 [NEMA3R] (Optional) CABINET IP54 810x1800x500 [NEMAEV] (Optional)
ENCLOSURE TYPE	Stainless Steel front and upper panel Steel enclosure painted in white Red plastics (ABS) on control interface
COOLING	FORCED VENTILATION with active fan control
AUDIBLE NOISE	<65 dBA at 1 meter
ENVIRONMENTAL PROTECTION	IP21 (Standard) IP54 (Optional)
AMBIENT TEMPERATURE	OPERATION: -5/ +45 °C STORAGE: -20 / +70 °C
ALTITUDE	<2000m, Derating according to EN62040-3
USER INTERFACE AND CONNECTIVITY	
USER INTERFACE	Alphanumeric LCD Display + LEDs, membrane keyboard and Audible Alarm
CONNECTIVITY	• Compatible with Bassi wireless Battery Identification Modules (BMOD) • Integrated Data-logger (200 cycles) • Extended Data-logger (600 cycles) with USB port (Optional) • CANBUS interface to Battery BMS (Optional) • Wireless card (Optional)
STANDARDS	
QUALITY	ISO 9001:2008
MARKING	CE
EMC	IEC EN 61000-6-2, IEC EN 61000-6-4
SAFETY	IEC EN 50178, IEC EN 62040-1
TEST AND PERFORMANCE	IEC EN 62040-3

NOTES
(*) = Reported Efficiency and Power Factor values are AVERAGE values, measured over the entire charging cycle. Peak Efficiency and Power Factor are higher.