

# CONVENTIONAL BATTERY CHARGER

Industrialbatteries.com.au

## APPLICATIONS

- NORMAL SINGLE SHIFT APPLICATIONS
- DESIGNED FOR STANDARD **OVERNIGHT** FORKLIFT BATTERY CHARGING

Our range of Forklift Battery Chargers includes trusted and reliable products from world-renowned manufacturers..

All chargers come with a manufacturer's warranty guaranteeing quality, performance, and reliability for your peace of mind.

## FEATURES:

- 5 year product warranty
- Plug and play design
- User Interface with LED indication
- Full electronic protection
- Automatic equalisation and refresh
- IP21 rated design



## COST EFFECTIVE FORKLIFT BATTERY CHARGERS



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**CELL**  
TRUSTED BATTERY SYSTEMS

# TECHNICAL INFORMATION

Product Specifications	
<b>AC INPUT</b>	
STANDARD VOLTAGES	Single-phase 220-230-240 VAC $\pm$ 10% Three-phase 200, 220-240, 400-415, 440, 480, 600 VAC $\pm$ 10% Frequency 50/60 Hz $\pm$ 5 Hz
EFFICIENCY	>90%
POWER FACTOR	>0,9
<b>DC OUTPUT</b>	
STANDARD VOLTAGES	Nominal battery voltages from 24V to 96 VDC Other voltages available on request
CURRENT RATINGS	From 40A to 320A
CHARGING CURVE	Standard curve Wa (DIN 41774) Optional curves: WoWa, Wsa (pulsed) Automatic Weekly Equalization Automatic Refresh System
<b>PROTECTION</b>	
WRONG BATTERY	If the battery voltage is outside the acceptable limits 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	<b>WITHOUT AUXILIARY WIRES:</b> When the battery is connected, no arcing is generated at the connectors. If the battery is disconnected while it's being charged, arcing is possible, so it's necessary to turn off the charger before to disconnect the battery. <b>WITH AUXILIARY WIRES (RECOMMENDED):</b> Full Anti-arcing protection in case of battery disconnection, even while the charge is in progress.
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 internal memory. When the AC input is restored, the charger restarts from the exact point of interruption, and it completes the charge cycle normally.
AUTOMATIC SHUTDOWN ON BATTERY DISCONNECTION	If the battery is disconnected while the charge is in progress, the charger turns-off automatically within 3 seconds.
SAFETY TIMER	An independent safety timer turns the charger off in case of malfunction of the main control unit.
<b>MECHANICAL AND ENVIRONMENTAL</b>	
ENCLOSURE TYPE	Steel enclosure, painted in RED
COOLING	Natural ventilation
AUDIBLE NOISE	<65 dBA at 1 meter
ENVIRONMENTAL PROTECTION	IP21
AMBIENT TEMPERATURE	OPERATION: -10 / +50 °C STORAGE: -20 / +70 °C
ALTITUDE	<2000m Derating according to EN62040-3
<b>USER INTERFACE AND CONNECTIVITY</b>	
USER INTERFACE	LED control panel
<b>STANDARDS</b>	
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