

## Phoenix

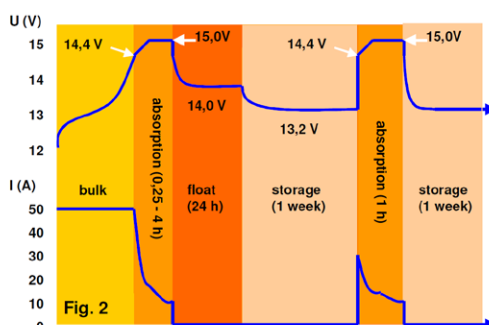
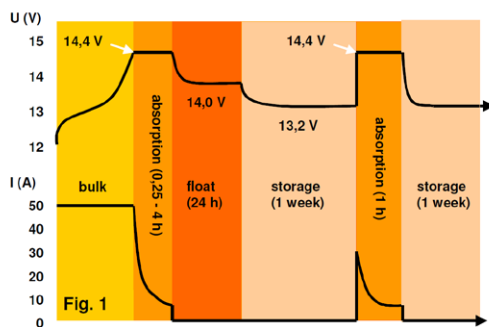
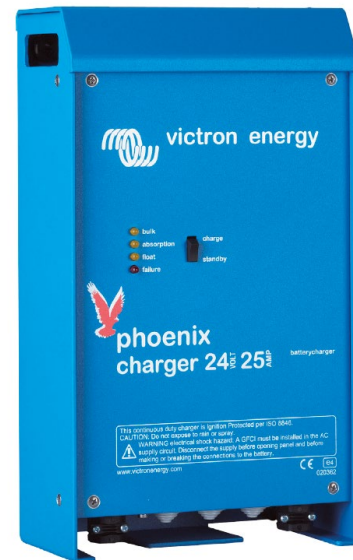
### Automatic optimization of the charging process

The Phoenix Battery Chargers feature a microprocessor controlled 'adaptive' battery management system that can be preset to suit different types of batteries. The 'adaptive' feature will automatically optimise the process based on the battery duty cycle.

### Adaptive 4-stage charge system

Adaptive 4-stage charge system: bulk – absorption – float – storage. Three outputs, two complete and one of 4 amps.

Universal 90-265V input, 45-65 Hz.



## FEATURES

- Adaptive 4-stage charge: bulk - absorption - float - storage.
- The right amount of charge: variable absorption time. To prevent overcharging of the battery, the absorption time is kept short when only shallow discharges occur. After a deep discharge the absorption time is automatically increased to make sure that the battery is completely recharged.
- Every charger comes with a battery temperature sensor. When connected, charge voltage will automatically decrease while increasing battery temperature. This feature is especially recommended for gelled batteries and/or when important fluctuations of battery temperature are expected.
- Battery voltage sense, so that the battery always receives the correct charge voltage. This feature allows to compensate voltage losses due to cable resistance.
- The "storage" mode prevents stratification of the electrolyte and sulphation, major cause of early battery failure.
- Ready to communicate with a PC through its RS-485 serial port (wire not included).

# PHOENIX

## Standard specifications

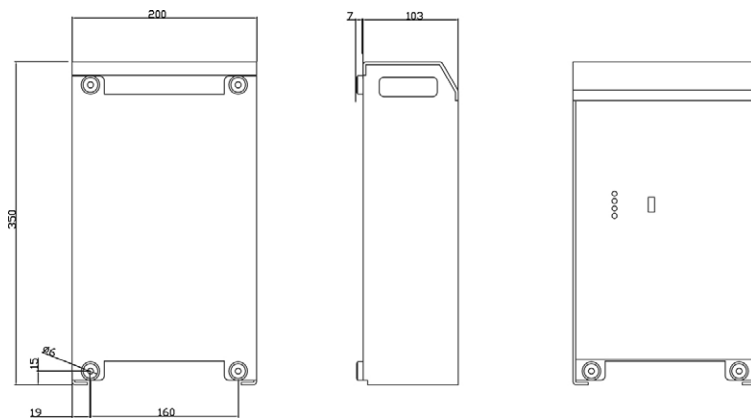
PHOENIX BATTERY CHARGER	12/30	12/50	24/16	24/25
Input voltage range (V a.c.)	90-265			
Input voltage range (V d.c.)	90-400			
Frequency (Hz)	45-65			
Power factor	1			
Charge voltage 'absorption' (V d.c.)	14.4	14.4	28.8	28.8
Charge voltage 'float' (V d.c.)	13.8	13.8	27.6	27.6
"Storage" voltage (V d.c.)	13.2	13.2	26.4	26.4
Charge current starter batt. (A)	4	4	4	4
Charge characteristic	4 stage adaptive			
Battery capacity (Ah)	100-400	200-800	100-200	100-400
Temperature sensor				
Forced cooling				
Can be used as power supply				
Protections	Output short-circuit, reverse polarity, over-temperature and transient overvoltage.			
Operating temp. range	From -20° to +60°C			
Humidity (non condensing)	max. 95%			

## Enclosure

Material & colour	Aluminium (blue RAL 5012)
Battery-connection	M6 bolts.
230V a.c.-connection	4 mm <sup>2</sup> clamps (AWG 6).
Protection category	IP 21.
Weight (kg)	3.8
Dimensions (mm)	350 x 200 x 108

## Standards

Safety	EN 60335-1	EN 60335-2-29
Emission/ Immunity	EN 55014-1	EN 61000-3-2
Vibration	IEC68-2-6:10-150Hz/1.0G	



**!** Specifications subject to change without previous notice.

