

## PHOENIX



Cargador de baterías Victron Energy Phoenix

### **Adaptive 4-stage charge characteristic: bulk – absorption – float – storage**

The Phoenix charger features 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 relative to the way the battery is being used.

### **The right amount of charge: variable absorption time**

When only shallow discharges occur (a yacht connected to shore power for example) the absorption time is kept short in order to prevent overcharging of the battery. After a deep discharge the absorption time is automatically increased to make sure that the battery is completely recharged.

### **Preventing damage due to excessive gassing: the BatterySafe mode**

If, in order to quickly charge a battery, a high charge current in combination with a high absorption voltage has been chosen, the Phoenix charger will prevent damage due to excessive gassing by automatically limiting the rate of voltage increase once the gassing voltage has been reached.

### **Less maintenance and aging when the battery is not in use: the Storage mode**

The storage mode kicks in whenever the battery has not been subjected to discharge during 24 hours. In the storage mode float voltage is reduced to 2,2 V/cell (13,2 V for 12 V battery) to minimise gassing and corrosion of the positive plates. Once a week the voltage is raised back to the absorption level to 'equalize' the battery. This feature prevents stratification of the electrolyte and sulphation, a major cause of early battery failure.

### **To increase battery life: temperature compensation**

Every Phoenix charger comes with a battery temperature sensor. When connected, charge voltage will automatically decrease with increasing battery temperature. This feature is especially recommended for cooled batteries

especially recommended for sealed batteries and/or when important fluctuations of battery temperature are expected.

**Every Phoenix Charger is ready to communicate with a computer through its RS-485 data port**

### Battery voltage sense


In order to compensate for voltage loss due to cable resistance, Phoenix chargers are provided with a voltage sense facility so that the battery always receives the correct charge voltage.

Victron Energy Phoenix charges can be used as power supply. Phoenix chargers also includes temperature and voltage sensor

## SPECIFICATIONS

	12 / 30	12 / 50	24 / 16	24 / 25
Nominal charge current 40°C	30 Amp	50 Amp	16 Amp	24 Amp
Auxiliar battery charge current	4 Amp	4 Amp	4 Amp	4 Amp
Absorption charge voltage	14,4 Vdc	14,4 Vdc	28,8 Vdc	28,8 Vdc
Float charge voltage	13,8 Vdc	13,8 Vdc	27,6 Vdc	27,6 Vdc
Storage voltage	13,2 Vdc	13,2 Vdc	26,4 Vdc	26,4 Vdc
Input voltage range	90 - 265 Vac / 45 - 65 Hz / Power factor = 1			
Charge characteristics	4 stage adaptative. Configurable			
Protection	Output short circuit, Battery reverse polarity detection, Battery voltage too high, Temperature too high			
Recommended Battery capacity	100 - 400 Ah	200 - 800 Ah	100 - 200 Ah	100 - 400 Ah
Operating temperature range	- 20 to 60 °C			
Battery connectors	M6 Studs			
AC connectors	screw-clamp 4 mm <sup>2</sup>			
Dimmensions	350 x 200 x 108 mm			
Weight	3,8 Kgr			
Warranty	2 years			

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