

BENEFITS

Keyhole mounting

Plug-in screw connectors : For easy wiring.

Dual output : with battery current monitoring.

Built-in fault and failure protection: (overload, short circuit, reverse polarity, output overvoltage, thermal runaway...)

Natural convection cooling

Operating up to 50°C

Easy programming : by switches (operating mode, battery type)

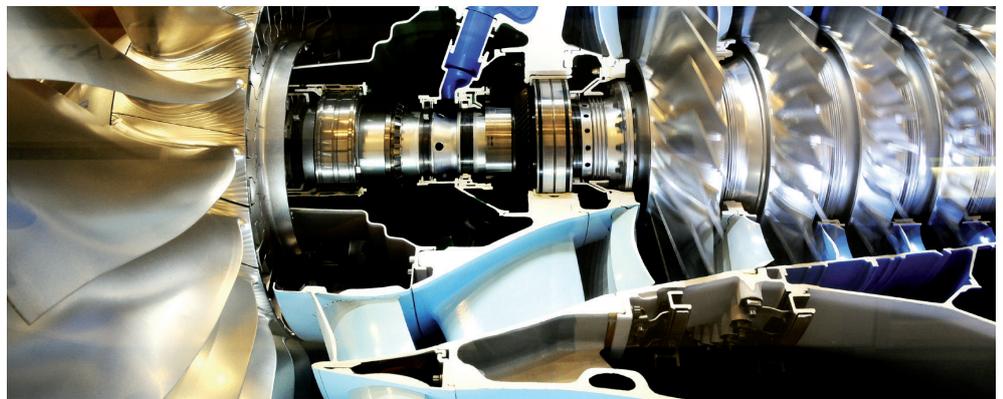
Boost function : integrated for fast battery charging.

Static stop on dry contact

Possibility of voltage and current adjustment : by external potentiometer.

Interfacing with the Quartz supervision: via a simple ribbon cable.

Chloride® Alpha family of rectifiers have all the functionalities required to charge lead (Pb) batteries to ensure the longest possible service life. They cover the most common direct voltages of 12 Vdc to 240 Vdc. Their rating offers power at a comfortable level of use and is suitable for systems with extended autonomy.



The products are designed to be installed in a cabinet or switchboard and, alongside batteries, can act as direct supplies to back up sensitive components for continuous processes (PLC, coils, valves, etc.). They can also be configured for power supply with an adjustable output voltage. Chloride® Alpha chargers can be combined with Chloride® Quartz supervisor, thereby offering the user total freedom in terms of battery parameters, monitoring and measurements. Chloride® Quartz supervisor input and output board provides the interface with the automatic monitoring and protection control systems.



Code	Reference	Voltage		Current	Dimensions / Mecanics
		Input (Vac)	Output (Vdc)	Output* (A)	
6007977	ALPHA 900 12 30	187 to 264 V 47 to 63 Hz	12 V (0-15)	30	IP20 H : 335 mm L : 211 mm D : 123 mm 4.7 kg
6006455	ALPHA 900 24 30		24 V (0-30)	30	
6006456	ALPHA 900 48 15	48 V (0-60)	15		
6006457	ALPHA 900 110 06	110 V (0-150)	6		
6006457	ALPHA 900 120 06	120 V (0-150)	6		
6008584	ALPHA 1800 12 60	12 V (0-15)	60	IP20 H : 413 mm L : 261 mm D : 123 mm 9.5 kg	
6008585	ALPHA 1800 24 60	24 V (0-30)	60		
6008586	ALPHA 1800 48 30	48 V (0-60)	30		
6008587	ALPHA 1800 110 12	110 V (0-150)	12		
6008587	ALPHA 1800 120 12	120 V (0-150)	12		
6008588	ALPHA 1800 220 06	220 V (0-300)	6		
6008588	ALPHA 1800 240 06	240 V (0-300)	6		

*by external potentiometer

Functions

Battery current limitation	It is strongly recommended to limit the charging current of the battery to 10% of its capacity in Ah for lead acid batteries. The Alpha chargers have an independent current regulation for the battery, which allows to adjust the current to the battery whatever the current consumed by the use. This adjustment is made by a potentiometer accessible on the front panel.
Adjustment of the output voltage	Although the Alpha chargers are pre-set for the most common batteries, it is possible to adjust the output voltage by +/-5% using a potentiometer on the front panel.
Boost	The Alpha chargers have a boost function that increases the charging voltage by 3.8% for a few hours to speed up the charging of the batteries. It is activated by connecting two terminals of a connector.
Static stop control	The shutdown of the Alpha chargers can be controlled by an external contact. The static stop is activated by connecting two terminals of a connector.
Current and voltage control via external potentiometer	Alpha chargers can be controlled over the full current and voltage range by means of external potentiometers. The settings cover the range from 0 to 100% of the nominal current rating, and from 0 to 125% of the nominal voltage rating.
Signalling	The status of the charger is indicated by an LED and a dry fault contact.

General Features

Typical efficiency	83% à 91%
Input power factor	> 0.95
Stability regulation	± 1%
Output ripple	< 0.1 %
Operating / storage temperature	0 °C à +50 °C / -45 °C à +85 °C
Cooling	Natural convection

Standards

Compliance	Product: NF C 58-311 and NF 61204
	DBT n°2006/95/CE - NF EN 50178
	CEM n°2004/108/CE - NF EN 61000-6-2 / NF EN 61000-6-4
	to the transformer standard NF EN 61558-2-17

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