

# DELTA

DC Power - Rectifier

## BENEFITS

**Slotted hole mounting**

**DIN rail mounting (for Delta 300)**

**Plug-in screw connectors:** for easy wiring.

**Built-in protections :** against errors and failures (overload, short-circuit, reverse polarity, output overvoltage, ...).

**Natural ventilation**

**Operation up to 50°C\***

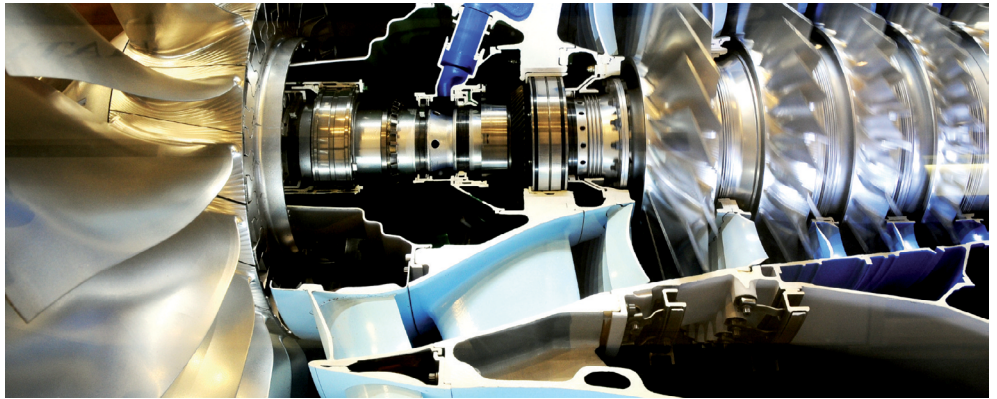
**Simple programming:** via micro switch (operating mode, battery type).

**Integrated boost function :** for fast battery charging.

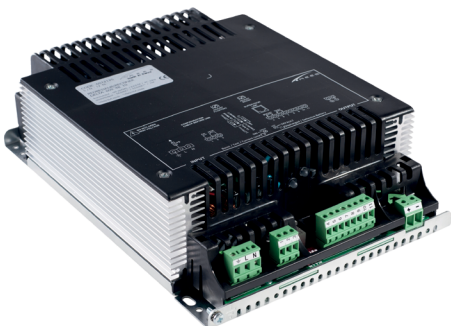
**Parallel connection with coupling diodes possible :** (maximum 3 modules) for power increase or redundancy.

**Fault reporting included**

Chloride® Delta is a range of rectifiers with all the necessary features to charge lead-acid (Pb) or nickel cadmium (NiCd) batteries to ensure maximum battery life. They cover the most common DC voltages from 12 Vdc to 48 Vdc. Their ratings offer comfortable power handling and are suitable for a wide range of applications including long-range systems.



The Chloride® DELTA modules have been designed to charge lead acid (Pb) and nickel cadmium (NiCd) batteries. With a simple interface, they offer the necessary settings and operating status indications. They guarantee reliable operation and extend the service life of the connected batteries even under difficult operating conditions. They can also be configured as a power supply with an adjustable output voltage. They can be integrated on a board, in an enclosure or in a panel to form uninterruptible power supplies, monitoring, signalling or control circuits, or to supply power to inrush systems such as relays, coils and solenoids.



Code	Reference	Voltage		Current	Size
		Input (Vac)	Output* (Vdc)	Output* (A)	
6014115	DELTA 300 12 10	187 to 264 V 47 to 63 Hz	12 V (0-15)	10	IP20 H : 135 mm / L : 103 mm / D: 135 mm 1 kg
6014113	DELTA 300 24 10		24 V (0-30)	10	
6014114	DELTA 300 48 05		48 V (0-60)	5	
6013112	DELTA 600 12 20		12 V (0-15)	20	IP20 H : 282 mm / L : 202 mm / D: 75 mm 2.6 Kg
6012124	DELTA 600 24 20		24 V (0-30)	20	
6012125	DELTA 600 48 10		48 V (0-60)	10	

\*by external potentiometer

## Functions

Battery Test Check	In order to check that the battery is capable of supplying the load, the module has a TEST function which lowers the voltage to 12 V, 24 V or 48 V depending on the module.
Adjustment of the output voltage	Although Delta chargers are pre-set for the most common batteries, it is possible to adjust the output voltage up to 125% of the nominal voltage using a potentiometer on the front panel.
Boost	To speed up the charging of batteries, it can be useful to apply a higher voltage for a few hours. Delta chargers have a boost function that increases the charging voltage by 3.8%. It is activated by connecting two terminals of a connector.
Voltage control via external potentiometer	The Delta chargers can be voltage-controlled by an external potentiometer over a range of 10 to 15 V for 12 V, 10 to 30 V for 24 V and 15 to 60 V for 48 V. From 10 to 15 V, for 24 V from 10 to 30 V and for 48 V from 15 to 60 V.
Signalling	The state of the charger is signalled by 2 LEDs and a dry contact for fault synthesis.
CF Option	IP31 enclosure with display: 450 x 497 x 253 mm (HLD).

General Features	DELTA 300	DELTA 600
Typical performance		83 % to 90 %
Input power factor		> 0.95
Voltage regulation		± 1 %
Dynamic regulation		< 5% / 5ms (from 100% to 10% of In)
Effective residual ripple rate		< 0.2 %
Operating temperature	0°C à + 50°C	0 °C to + 40 °C (500 W to +50 °C)
Storage temperature		- 45 °C to + 85 °C
Cooling		Natural convection

## Standard

Compliance	Product: NF C 58-311 and NF 61204
	DBT 2006/95/CE : NF EN 60950-1 §2.10, §5.2 - NF EN 50178
	SELV product : NF C 15-100
	DCEM 20004/108/CE : NF EN 61000-3-2, NF EN 61000-6-2, NF EN 61000-6-4

