

BATTERY CHARGERS CDS4

CDS4 12V – CDS4 24 V



Designed to replace the popular CDS3 range the CDS4 adds many new functions and is simple to use.

Polyvalent, it can be used as a battery charger, a DC power supply or integrated into your back up power supply systems.

Adapted for all types of applications such as: marine, defence, industrial

CDS4 ADVANTAGES

With ENAGs range of automatic battery chargers you are assured of:

▪ Efficiency

- A wide input voltage range
- Works at temperatures of up to 60°C without derating
- Plug and play function
- Three outputs with distribution of the load current
- CAN bus communication (option)

▪ Reliability

- Battery type selection: AGM, GEL, Open lead/acid, Lead-calcium, Lithium, etc...
- Charge cycle selection: Boost, Absorption, Floating, Automatic Refresh, Reboost t

▪ Ruggedness

- Boards marine tropicalized
- Efficient thermal dissipation
- Thermoplastic packaging (recyclable)



TEMPERATURE PROBE

The STP-NEW-2.8 temperature probe allows compensation of the charge voltage in function of the ambient temperature in the battery room.

The voltage compensation applied is:

- -18mV/°C for 12V batteries
- -36mV/°C for 24V batteries



ALARM BOARD

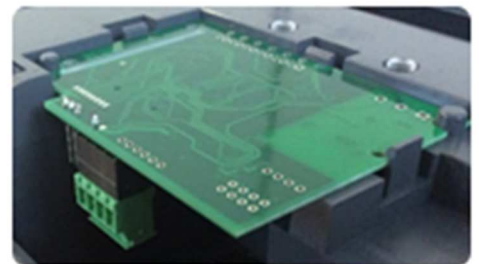
This option allows two alarms (dry contacts: normally-open or normally closed) to be transmitted to an external monitoring system.

Alarm « battery (+BAT1) low » is triggered if the voltage of the battery bank is less than:

- 10.2V±5% (for 12V models).
- 20.4V±5% (for 24V models).

Alarm « charger fault » is triggered if:

- The charger is off ;
- The charger fails ;
- The output fuse has blown ;
- The charger voltage (before the charge divider) is less than :
 - 11V±5% (for 12V models)
 - 22V±5% (for 24V models).



EXTERNAL ANALOG DISPLAYS

Analog voltmeters

The voltage values of +BAT1, +BAT2 and +BATD can be remotely displayed on analog voltmeters.

Analog ammeter

An analog ammeter can be used to measure the output current of the charger (battery + user).

This option requires also the alarm board option.



CAN INTERFACE

With its **CAN bus interface**, the CDS4 charger can communicate with a monitoring system or other peripherals using this mode of communication.



CDS4 – TECHNICAL SPECIFICATIONS

DESCRIPTION	CDS4 - 12/16	CDS4 - 12/25	CDS4 - 24/12	CDS4 - 24/20	CDS4 - 24/30
Part number	SEEL015501	SEEL015511	SEEL015512	SEEL015522	SEEL015532
Model	12V/16A	12V/25A	24V/12A	24V/20A	24V/30A
INPUT					
Voltage	From 90 to 265 VAC single phase				
Frequency	From 47 to 65 Hz				
Input current 230/115 VAC	1,1/2,2A	1,7/3,4A	1,7/3,4A	2,9/5,8A	4,5/9A
Power factor	1				
Efficiency	90% typical				
Fuses	T6,3 A/250 V -6,3x32			T15 A/250 V - 6,3x32	
OUTPUT					
Current / power	16 A/228 W	25 A/356 W	12 A/342 W	20 A/570 W	30 A/855 W
Number of outputs	3 positive outputs – 1 negative pole Each output can be used on its own and draws the nominal current from the charger				
Charging curve	Select IU or IU or U using internal switches (Boost – factory setting)				
Battery type	Can be configured for all types (internal configuration)				
Floating voltage	13,6 VDC		27,2 VDC		
Regulation	< 2% before output diode and fuse				
Ripple	< 2% peak to peak				
Automotive type fuse	1 x 20A/32V	1 x 30A/32V	1 x 15A/32V	2 x 15A/32V	2 x 20A/32V
ENVIRONEMENT					
Cooling	Natural except for 24V/30A models (temperature and current controlled ventilation)				
Sound level	0				< 50 dB at 1m
Operating temperature	From -20 to 60°C without derating - Automatic switch off at 65 °C (automatic restart)				
Storage temperature	From -20 to + 70 °C				
Relative Humidity	Up to 70 % (95% without condensation)				
PCB protection	Tropicalized (water repellent varnish)				
PRESENTATION					
Case	Aluminum heat sink frame with thermo-plastic cover, aluminum clasp				
Dimensions (lhp mm)	236 x 180 x 96			289 x 95 x 106	
Weight	2,1Kg			3,5Kg	
Fixing center distance	219x155			272x170	
Protection factor	IP22				
STANDARDS					
CE/CEM	EN 61204 - 3				
CE / Security	EN 60335-2-29				
PROTECTION					
	Against input surges by varistor (not covered by warranty), against polarity reversal by fuse, against output short circuit, against overheating by automatic charger switch off (automatic restart)				
OPTION					
Temperature Probe	Voltage compensation: -18 mV/°C		Voltage compensation: -36 mV/°C		
Alarm board	Low battery (+BAT1) alarm and battery fault				
Communication	CAN-BUS interface				
Analog displays	Up-to 3 voltmeters and 1 ammeter: voltage measurement of each battery and charger current				

The information contained in this leaflet is not of a contractual nature. ENAG reserves the right to amend the technical details of its products without advance notice.
Please consult us before installing the units.

FC-CDS4-EN-I