



## Battery chargers CDS4 12V & 24V High Power range

ENAGs new generation of CDS4 battery chargers continues to evolve with the introduction of a high power range.

Enhanced functionalities, more efficient battery charging with the option of voltage compensation to correct line drops. Polyvalent, it can be used as a battery charger, a DC power supply or integrated into your back up power supply systems.

The new range is adapted for rugged environments such as marine, defence, industrial



### Even more:

#### ● Efficiency:

- **High charging current**
- **Compensation of voltage line drops.**
- **Fan speed control → low noise levels**
- Large of input voltage range with overvoltage protection board (easily replaced)
- Works at temperatures of up to 50°C without derating
- Three outputs with distribution of load current
- CAN bus communication
- Touch screen display

#### ● Reliability:

- Battery type selection: AGM, GEL, Open lead/acid, Lead Calcium, Lithium...
- Charge cycle selection: Boost, Absorption, Floating, Refresh, Reboost.
- Temperature sensor

#### ● Ruggedness:

- **Aluminium case painted to withstand marine conditions**
- Boards marine tropicalized
- Efficient thermal dissipation
- Option to mount 4 chargers in parallel with current balancing

## Technical Specifications:

Description	CDS4-12/90	CDS4-24/45	CDS4-24/60	CDS4-24/80	CDS4-24/100
Part Number	SEEL013541-1A	SEEL013542-1A	SEEL013552-1A	SEEL013562-1A	SEEL013572-1A
Model	12V/90A	24V/45A	24V/60A	24V/80A	24V/100A
<b>INPUT</b>					
Voltage	From 90 to 265 VAC single-phase				
Frequency	From 47 to 65 Hz				
Input current 230/115Vac	6,0/16,0A		9,0/20,0 A	11.0/20.0 A	15.0/30.0A
Power factor	1				
Efficiency	87 % typical				
Fuses	2x20A/250 V - 6,3x32		2x25A/250 - 6,3x32		2x32A/250 V - 6,3x32
<b>OUTPUT</b>					
Current	90A	45A	60A	80A	100A
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 IUoU using internal switches ( factory setting)				
Battery type	Lead acid by default - Can be configured for all types (internal switch configuration)				
Floating voltage	13,8 Vdc	27,6 Vdc			
Regulation	< 1% before output diode and fuse				
Ripple	< 1% peak to peak				
Automotive type fuse	4 x 30A/32V	2 x 30A/32V	3 x 25A/32V	4 x 25A/32V	4 x 30A/32V
Alarm board	Low battery (+BAT1) alarm and «charger fault » with dry contacts				
Isolated Bus CAN communication	By default				
<b>ENVIRONMENT</b>					
Cooling	Temperature and current controlled ventilation				
Sound level	< 50 dB at 1 m				
Operating temperature	From -20 to +50 °C – Derating above 50°C – Automatic switch off at 60 °C with automatic restart				
Storage temperature	From -20 to +70 °C				
Relative humidity	96% no condensation				
PCB protection	Tropicalized (water repellent varnish)				
<b>PRESENTATION</b>					
Case	Aluminium frame and heat sink / Aluminium cover				
Dimensions (lhp mm) Weight	270x360x130 / 6.8Kg				270x410x130 / 9.0Kg
Wall mounting	4 x M6 screws – (Mounting kit with screws )				
Protection factor	IP23				
<b>NORMS</b>					
Security / CE / CEM Marking	EN 60335-2-29 / EN 61204 - 3				
<b>PROTECTION</b>					
	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)				
<b>OPTION</b>					
Temperature probe	Voltage compensation -18 mV/°C	Voltage compensation: -36 mV/°C			
Analog & digital displays	Up-to 3 voltmeters et 1 ammeter : voltage measurement of each battery and charger current				
Touch screen display	2.5" colour touch screen display integrated or remote				
Voltage compensation	Line voltage drop compensation				
Remote control	Isolated remote control				

FC-CDS4-H-EN-D

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.

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