

BATTERY CHARGERS CDS4

12V – 24V – 48V
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 in marine, defence or industrial applications

ADVANTAGES OF CDS4

▪ 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

▪ 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



CDS4 - TECHNICAL SPECIFICATIONS

DESCRIPTION	CDS4 - 24/45	CDS4 - 24/60	CDS4 - 24/80	CDS4 - 24/100
Part Number	SEEL013542-1A	SEEL013552-1A	SEEL013562-1A	SEEL013572-1A
Model	24V/45A	24V/60A	24V/80A	24V/100A
INPUT				
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
OUTPUT				
Current	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	27,6 Vdc			
Regulation	< 1% before output diode and fuse			
Ripple	< 1% peak to peak			
Automotive type fuse	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			
Communication	Isolated Bus CAN by default			
ENVIRONMENT				
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 above 60 °C Automatic restart when temperature decreases			
Storage temperature	From -20 to +70 °C			
Relative humidity	Up to 96% without condensation			
PCB protection	Tropicalized (water repellent varnish)			
Protection factor	IP23			
PRESENTATION				
Housing	Painted Aluminium			
Dimensions (lhd mm)	270 x 360 x 130			270 x 410 x 130
Weight	6,8 kg			9.0kg
Wall mounting	4 x M6 screws – (Mounting kit with screws)			
NORMS				
Security / CE / CEM Marking	EN 60335-2-29 / EN 61204 - 3			
PROTECTION				
Against : input surges by varistor (not covered by warranty); polarity reversal by fuse; output short circuit; overheating by automatic charger switch off (automatic restart)				
OPTION				
Temperature probe	Voltage compensation -36 mV/°C			
Analog & digital displays	Up-to 3 voltmeters and 1 ammeter: voltage measurement of each battery and charger current			
Touch screen display	2.4’’ colour display integrated or remote			
Remote control	Isolated on/off remote control			

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-H-EN-I

CDS4 - TECHNICAL SPECIFICATIONS

DESCRIPTION	CDS4 - 12/90	CDS4 - 48/30
Part Number	SEEL013541-1A	SEEL013554-1A
Model	12V/90A	48V/30A
INPUT		
Voltage	From 90 to 265 VAC single-phase	
Frequency	From 47 to 65 Hz	
Input current 230/115Vac	6,0/16,0A	9.0/20.0A
Power factor	1	
Efficiency	87% typical	
Fuses	2 x 20A 250V 6,3x32	2 x 25A 250V (6,3x32) (F1/F2)
OUTPUT		
Current	90A	30A
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	13Vdc	55,2 VDC for Lead sealed battery (factory setting)
Regulation	<1% before output diode and fuse	
Ripple	< 1% peak to peak	
Automotive type fuse	4 x 30A/32V	2 x 20A/80V
Alarm board	Low battery (+BAT1) alarm and «charger fault » with dry contacts	
Communication	Isolated Bus CAN by default	
ENVIRONMENT		
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 above 60 °C Automatic restart when temperature decreases	
Storage temperature	From -20 to +70 °C	
Relative humidity	Up to 96% without condensation	
PCB protection	Tropicalized (water repellent varnish)	
Protection factor	IP23	
PRESENTATION		
Housing	Painted Aluminium	
Dimensions (lhd mm)	270 x 360 x 130 mm	
Weight	6.8kg	
Wall mounting	4 x M6 screws – (Mounting kit with screws)	
STANDARDS		
Security / CE / CEM Marking	EN 60335-2-29 / EN 61204 - 3	
PROTECTION		
Against : input surges by varistor (not covered by warranty); polarity reversal by fuse; output short circuit; overheating by automatic charger switch off (automatic restart)		
OPTION		
Temperature probe	Voltage compensation -18 mV/°C	Output voltage compensation: 72mV/°C
Analog & digital displays	Up-to 3 voltmeters and 1 ammeter: voltage measurement of each battery and charger current	1 ammeter: charger current
Touch screen display	2.4’’ colour display integrated or remote	
Remote control	Isolated on/off remote control	

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