

Battery chargers range CDS4 12V & 24V High Power - DNV-GL certified

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.

Designed for severe environments, this new range is adapted for all types of professional applications. The **DNV-GL certificate**, well known worldwide, is a proof of reliability and robustness (temperature, vibration, input voltage ...).

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-CERT | SEEL013542-CERT | SEEL013552-CERT | SEEL013562-CERT | SEEL013572-CERT |
| Model | 12V/90A | 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 | 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 | | | | |
| Communication | Isolated Bus CAN by default | | | | |
| Touch screen display | 2.5" colour touch screen display remote | | | | |
| 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 at 60 °C with automatic restart | | | | |
| Storage temperature | From -20 to +70 °C | | | | |
| Relative humidity | 96% no condensation | | | | |
| PCB protection | Tropicalized (water repellent varnish) | | | | |
| PRESENTATION | | | | | |
| 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 | | | | |
| NORMS | | | | | |
| Security / CE / CEM Marking | EN 60335-2-29 / EN 61204 - 3 | | | | |
| 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 | | | |
| 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 remote | | | | |
| Voltage compensation | Line voltage drop compensation | | | | |
| Remote control | Isolated on / off remote control | | | | |

FC-CDS4-H-DNVGL-EN-F

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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