



DSE**9450**, DSE**9452** & DSE**9479**

INTELLIGENT BATTERY CHARGERS

50 AMP & 100 AMP. 24 V & 48 V OPTIONS



ADVANCED FEATURES

- · Intelligent two, three and four stage charging profiles
- · Remote voltage sensing to compensate for voltage drop
- · Adjustable current limit
- Can be used as a battery charger, power supply or both at the same time
- Additional auxiliary 12 V supply output
- · Automatic or manual boost and storage charge functions to help maintain battery condition
- Digital microprocessor technology
- Temperature compensation for battery charging
- · Low output ripple and superb line regulation
- Three LEDs indication

Full Protection

- · AC input under voltage
- AC input over voltage
- · Battery charger output over voltage
- Battery charger output over current
- · Battery low voltage detection
- · Battery temperature compensation

with over temperature protection

- Output short circuit and inversion polarity with auto recovery
- Automatic power de-rating at high ambient temperatures.
- Optional battery temperature compensation using PT1000 temperature sensor

Automatic Boost Mode

Boosts and equalises cell charge improving battery performance and life

Power Save Mode

Once the battery is fully charged the chargers switch to eco-power to save energy

Communication

- Can be integrated in to external systems through MODBUS RTU using RS485 & J1939 using **CANBUS**
- Fully configurable via DSE Configuration Suite PC Software
- External remote LCD option -DSE2541

KEY BENEFITS

- · Fully flexible to maximise the life of the battery
- Suitable for a wide range of battery
- Switched mode design
- · Charge fail output

PART NO.

057-159

057-151

053-178

057-240

0537-264

- Minimum 90% efficiency throughout full operating range
- Manual / Automatic boost mode
- Multiple chargers can be linked together to provide larger current
- Can be permenantly connected to battery and AC supply. No need to disconnect through high load conditions

SPECIFICATIONS

AC SUPPLY

NOMINAL VOLTAGE RANGE

FREQUENCY RANGE

45 Hz to 65 Hz (L-N)

CHARGE OUTPUT DSE9450 RATING AT 180 V TO 305 V SUPPLY 50 A DC at 48 V DC

RATING AT 90 V TO 170 V SUPPLY 30 A DC at 48 V DC

RIPPLE AND NOISE

EFFICIENCY

CHARGE OUTPUT DSE9452

RATING AT 90 V TO 305 V SUPPLY 50 A DC at 24 V DC

RIPPLE AND NOISE

EFFICIENCY

CHARGE OUTPUT DSE9479

RATING AT 180 V TO 305 V SUPPLY

RATING AT 90 V TO 170 V SUPPLY

RIPPLE AND NOISE

EFFICIENCY

REGULATION

LINE

LOAD

AUXILIARY SUPPLY

100 mA DC at 12 V DC

TEMPERATURE SENSOR INPUT

PT1000

PROTECTIONS Short Circuit

DC Under & Over Voltage DC Over Current Reverse Polarity Over Temperature AC Under & Over Voltage

CHARGE FAILURE RELAY

3 A 30 V DC volt free relay

OVERALL

523 mm x 275 mm x 131 mm 20.2" x 10.3" x 4.9"

WEIGHT

OPERATING TEMPERATURE RANGE -30 °C to +70 °C

-22 °F to +158 °F

STORAGE TEMPERATURE RANGE

-30 °C to +70 °C -22 °F to +158 °F

RELATED MATERIALS

TITLE

DSE9400 Series Configuration Suite PC Software Manual DSE Configuration Suite Installation & Operator Manual DSE9450, DSE9452 & DSE9479 Installation Instructions DSE9450 & DSE9452 Operator Manual DSE9479 Operator Manual

DEEP SEA ELECTRONICS PLC UK

Highfield House, Hunmanby Industrial Estate, Hunmanby YO14 0PH TELEPHONE +44 (0) 1723 890099 FACSIMILE +44 (0) 1723 893303 EMAIL sales@deepseaplc.com WEBSITE www.deepseaplc.com

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DEEP SEA ELECTRONICS INC USA

3230 Williams Avenue, Rockford, IL 61101-2668 USA TELEPHONE +1 (815) 316 8706 FACSIMILE +1 (815) 316 8708 EMAIL sales@deepseausa.com WEBSITE www.deepseausa.com





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INTELLIGENT BATTERY CHARGERS

50 AMP & 100 AMP, 24 V & 48 V OPTIONS

The DSE9450, DSE9452 and DSE9479 are intelligent battery chargers that can be programmed for different charging curves to maximise the life of the battery.

All chargers are programmed using the user-friendly DSE Configuration Suite PC software.

The chargers are mounted to the chassis using the fixing holes that are built into the case and via a supplied bracket. The chargers' stylish design includes three coloured LEDs to indicate charging status and fault conditions.

Multiple chargers can be linked together to provide a larger current output.

ENVIRONMENTAL TESTING STANDARDS

ELECTRO-MAGNETIC COMPATIBILITY

BS EN 61000-6-2
EMC Generic Immunity Standard for
the Industrial Environment
BS EN 61000-6-4
EMC Generic Emission Standard for
the Industrial Environment

OPERATING TEMPERATURE RANGE

BS EN 60068-2-1
Ab/Ae Cold Test -30 °C
BS EN 60068-2-2
Bb/Be Dry Heat +70 °C
* Refer to de-rating curve in the DSE9450
Operator Manual

VIBRATION

BS EN 60068-2-6 Ten sweeps in each of three major axes 5 Hz to 8 Hz ar +/-7.5 mm, 8 Hz to 500 Hz at 2 gn

HUMIDITY

BS EN 60068-2-30 Db Damp Heat Cyclic 20/55 °C at 95% RH 48 Hours BS EN 60068-2-78 Cab Damp Heat Static 40 °C at 93% RH 48 Hours

SHOCK

BS EN 60068-2-27 Three shocks in each of three major axes 15 gn in 11 mS

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF BATTERY CHARGER APPLICATIONS













