DSEPower

DSE

DSE**9473** & DSE**9483**

INTELLIGENT BATTERY CHARGERS

15 AMP, 12 VOLT & 24 VOLT OPTIONS

FEATURES

The DSE9400 series is a range of intelligent battery chargers that can be programmed for different charging curves to maximise the life of the battery.

The DSE9400 series of intelligent battery chargers are programmed using the user-friendly DSE Configuration Suite PC software.

The chargers can be either DIN rail or chassis mounted, using the fixing holes that are built into the case. The charger's stylish design includes three coloured LEDs to indicate charging status and fault conditions.

The chargers do not include any moving parts to give added durability and reliability. They will also continue to operate during engine running.

Multiple modules 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

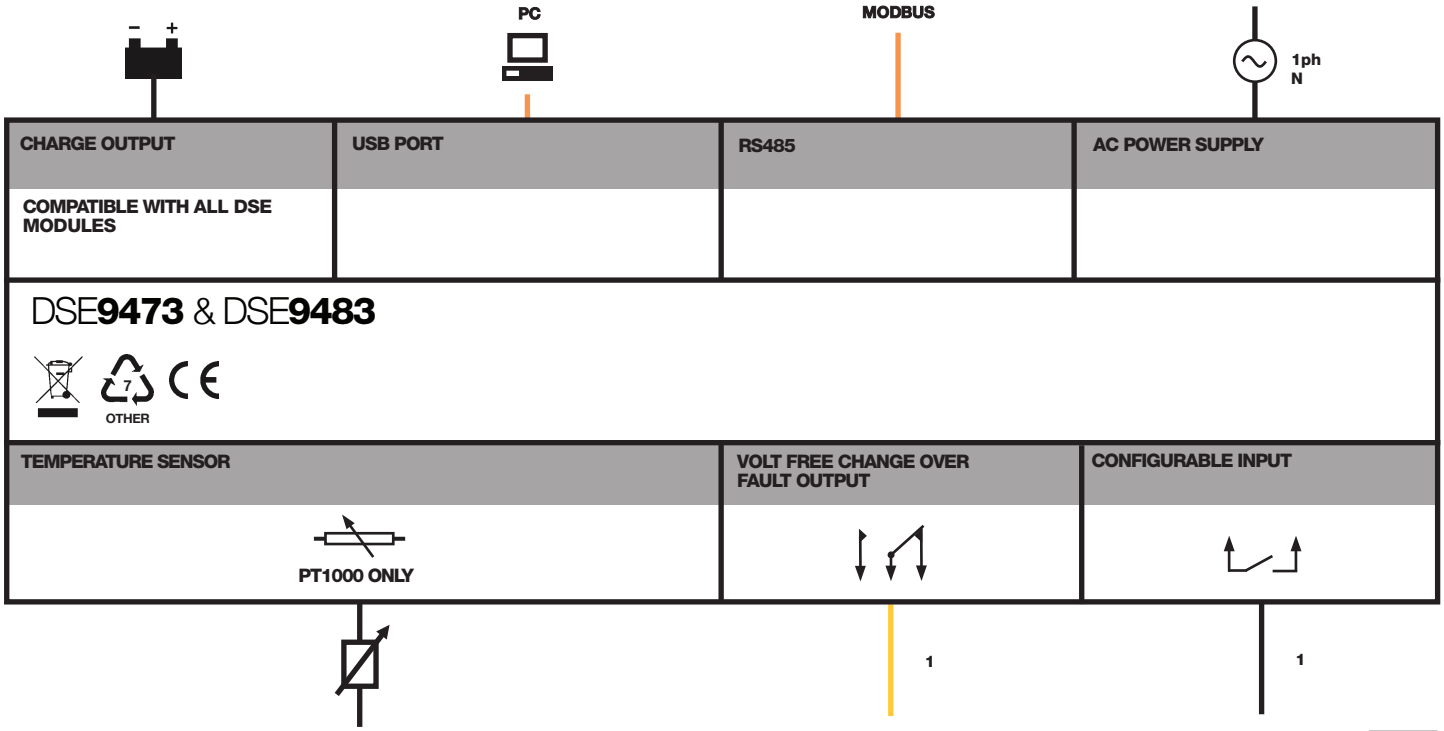
OPERATING TEMPERATURE RANGE
BS EN 60068-2-1
Ab/Ae Cold Test -30 °C
BS EN 60068-2-2
Bb/Be Dry Heat +80 °C
* Refer to de-rating curve in the DSE9000 Operator Manual

VIBRATION
BS EN 60068-2-6
Ten sweeps in each of three major axes
5 Hz to 8 Hz at +/-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



ISSUE 1

DSEPower

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FEATURES

ADVANCED FEATURES

- PF > 0.9
- Up to 94% efficiency
- Intelligent three and four stage charging profiles
- Adjustable current limit (Max 15A)
- Can be used as a battery charger, power supply or both at the same time
- 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 LED indicators
- Switched mode design
- Fully customisable battery charging curves

Full Protection

- AC input under voltage
- AC input over voltage
- Battery charger output over voltage
- Battery charger output over current
- Battery under voltage alarm
- Automatic battery detection
- Automatic battery charger self test
- Output short circuit and inverse polarity with auto recovery
- Automatic power de-rating at high ambient temperatures.
- Optional battery temperature compensation using PT1000 temperature sensor with over temperature protection

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 into external systems through MODBUS RTU using RS485
- Fully configurable via DSE Configuration Suite PC Software
- External remote display option - DSE2541

KEY BENEFITS

- Fully flexible to maximise the life of the battery
- Suitable for a wide range of battery types
- High efficiency and high power factor
- No external intervention for boost mode
- Multiple chargers can be linked together to provide larger current output
- Can be permenantly connected to battery and AC supply. No need to disconnect through high load conditions such as cranking or when the engine is running.

SPECIFICATION

AC SUPPLY
VOLTAGE RANGE
90 V to 305 V (L-N)

FREQUENCY RANGE
48 Hz to 64 Hz (L-N)

DC OUTPUT
DSE9473
15 A DC at 24 V DC

DSE9483
15 A DC at 12 V DC

RIPPLE AND NOISE
1%

EFFICIENCY
>90%

REGULATION
LINE
<0.5%

LOAD
2%

TEMPERATURE SENSOR INPUT
PT1000

PROTECTIONS
Short Circuit
DC Over Voltage
DC Over Current
Reverse Polarity
Over Temperature
AC Under & Over Voltage

CHARGE FAILURE RELAY
3 A at 30 V DC volt free relay

DIMENSIONS
OVERALL
80 mm x 205 mm x 135 mm
3.1” x 8.1” x 5.3”

WEIGHT
0.88 kg

OPERATING TEMPERATURE RANGE
-30 °C to +55 °C
-22 °F to +131 °F

STORAGE TEMPERATURE RANGE
-30 °C to +70 °C
-22 °F to +158 °F

RELATED MATERIALS

TITLE	PART NO’S
DSE9400 Series Configuration Suite PC Software Manual	057-159
DSE Configuration Suite Installation & Operator Manual	057-151
DSE9473 & DSE9483 Installation Instructions	053-185
DSE9000 Series Operator Manual	057-085

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

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

Registered in England & Wales No.01319649
VAT No.316923457

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