

DSE9470

INTELLIGENT BATTERY CHARGER

10 AMP 24V

FEATURES



The DSE9470 is an intelligent battery charger that can be programmed for different charging curves to maximise the life of the battery.

The DSE9470 is programmed using the user-friendly DSE Configuration Suite PC software.

The charger can be either mounted via DIN rail or to the chassis, 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 charger does not include any moving parts to give added durability and reliability. It will also continue to operate during cranking and running.

The DSE9470 charger can accept multiple AC voltage connections and can be run in parallel to provide greater 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 @ +/-7.5 mm,
8 Hz to 500 Hz @ 2 gn

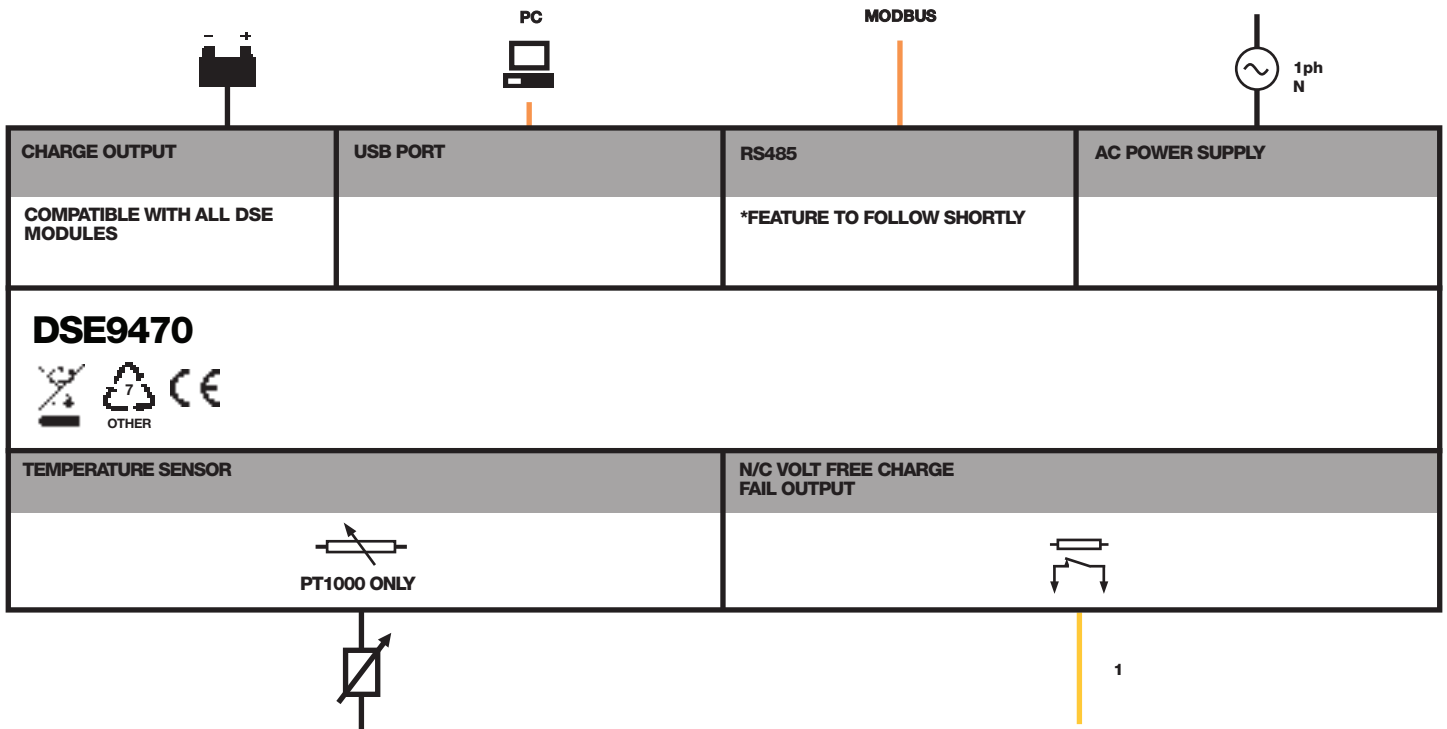
HUMIDITY

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



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ADVANCED FEATURES

Multi-Stage Intelligent Charging

- Automatic three stage charging
- Constant current - Maximum current available during charge recovery phase
- Constant voltage
- Chargers automatically return to float mode when charging is complete
- Digital microprocessor technology
- Three LEDs indication

Low Output Ripple

- Makes the chargers ideal for all battery types

Full Protection

- AC input Under voltage
- AC input Over voltage
- Battery charger output Over voltage
- Battery charger output Over current

- Short circuit protection
 - Battery temperature compensation with over temperature protection
 - Output short circuit and Inversion polarity
 - Automatic power de-rating at high ambient temperatures
- ##### 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
 - Fully configurable via DSE Configuration Suite PC Software

KEY BENEFITS

- Fully flexible to maximise the life of the battery
- Suitable for a wide range of battery types
- No moving parts for longer battery charger life
- Switched mode design
- Charge fail output
- Minimum 86% efficiency throughout full operating range
- No external intervention for boost mode
- Multiple chargers can be linked together to provide larger current output

* Feature to follow shortly

SPECIFICATION

AC SUPPLY

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

FREQUENCY RANGE

48 Hz to 64 Hz (L-N)

DC OUTPUT

10 A DC 24 V DC at 27 V DC

RIPPLE AND NOISE

<1%

EFFICIENCY

>86%

REGULATION

LINE
<0.001%

LOAD

1%

TEMPERATURE SENSOR INPUT

PT1000

PROTECTIONS

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

DIMENSIONS

OVERALL
70 mm x 200 mm x 130 mm
2.7" x 7.9" x 5.1"

WEIGHT

0.75 kg

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C

RELATED MATERIALS

TITLE

DSE9470 Configuration Suite PC Software Manual
DSE Configuration Suite Installation & Operator Manual
DSE9000 Series Installation Instructions
DSE9000 Series Operator Manual

PART NO'S

057-159
057-151
057-049
057-085

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