

DSE9462

DUAL OUTPUT INTELLIGENT BATTERY CHARGER 24V 15A & 12V 10A

The DSE9462 is a robust, lightweight, dual output, intelligent battery charger, designed for on-board vehicle use and applications that are using multiple batteries or loads. The charger can be programmed for different charging curves to maximise battery life.

The DSE9462 is programmed using the user-friendly DSE Configuration Suite PC software via USB.

The charger is mounted to the chassis using the fixing holes that are built into the case. The charger's stylish design includes four coloured LEDs to indicate charging status and fault conditions.

To give added durability, reliability and silent operation, the charger utilises modern, solid state design technology with no moving parts.

ENVIRONMENTAL TESTING STANDARDS

ELECTRO-MAGNETIC COMPATIBILITY

BS EN 61000-6-2
EMC Generic Immunity Standard for the Industrial Environment
BS EN 61000-6-3
EMC Generic Emission Residential Requirements
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 DSE9462 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

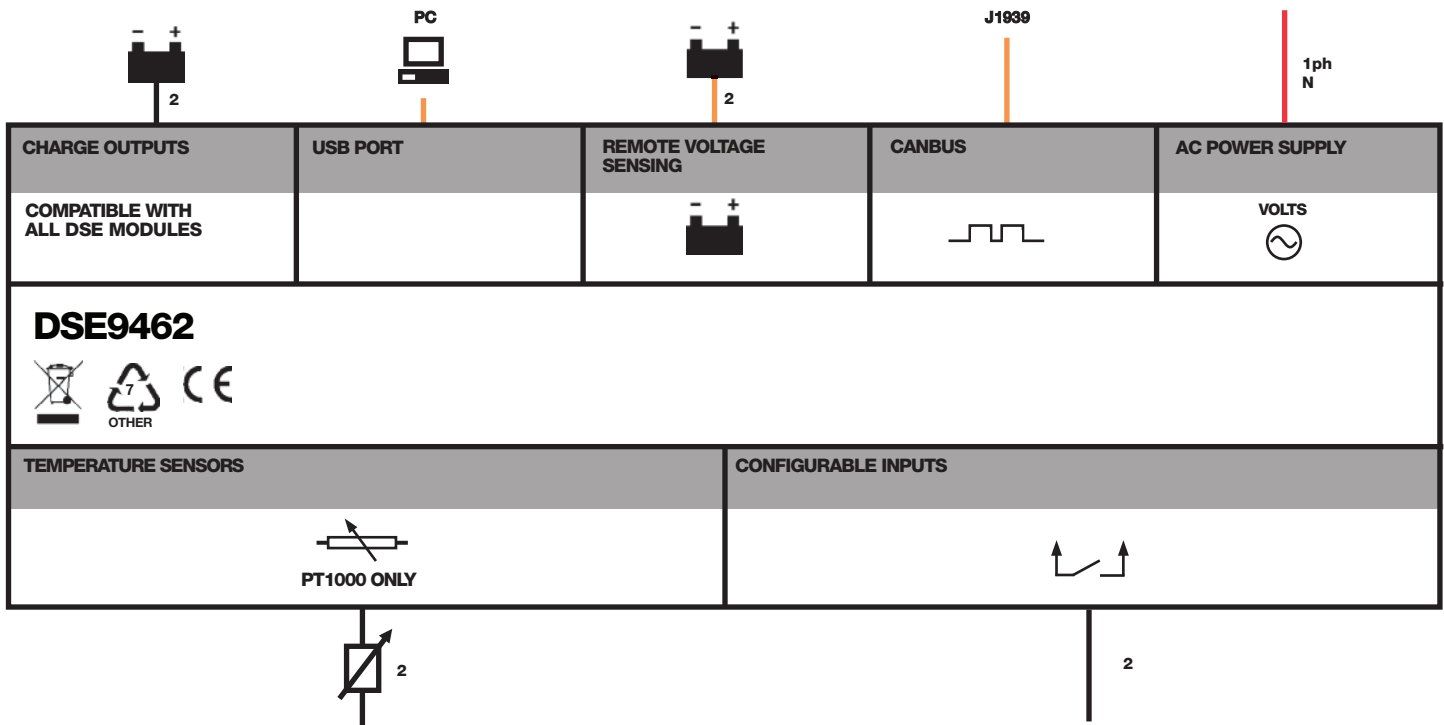
HUMIDITY

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



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DUAL OUTPUT INTELLIGENT BATTERY CHARGER

24V 15A & 12V 10A



ADVANCED FEATURES

- Intelligent two, three and four stage charging profiles
- Remote voltage sensing to compensate for voltage drop
- Fully independent, Adjustable current limit on both charge outputs; Output 1 (24 V) max 15 A, Output 2 (12 V) max 10 A
- 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
- Low output ripple
- Four 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

- Output short circuit and polarity inversion 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 into external systems through J1939 using CANBUS
- 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 (chemistries)
- Switched mode design
- Minimum 90% efficiency throughout full operating range
- No external intervention for manual mode
- Multiple chargers can be linked together to provide larger current output
- Can be permanently connected to battery and AC supply. No need to disconnect through high load conditions.
- Comes supplied with an EU specified captive 2 m mains cable.

SPECIFICATION

AC SUPPLY

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

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

MAXIMUM INPUT CURRENT
6.0 A Max

DC OUTPUTS

CHANNEL 1
15 A DC at 24 V DC

CHANNEL 2
10 A DC at 12 V DC

RIPPLE AND NOISE
2% x V_o

EFFICIENCY AND POWER FACTOR
>90% at 0.9 pf

REGULATION

LINE
<0.5% x V_o

LOAD
1% x V_o

TEMPERATURE SENSOR INPUTS NUMBER
2

TYPE
PT1000

PROTECTIONS

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

DIMENSIONS

OVERALL
290 mm x 157 mm x 67 mm

WEIGHT
1.84 kg

OPERATING TEMPERATURE RANGE

-30 °C to +70 °C
-22 °F to +131 °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
DSE9462 Installation Instructions
DSE9462 Operator Manual

PART NO'S

057-159
057-151
053-189
057-255

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