

# 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

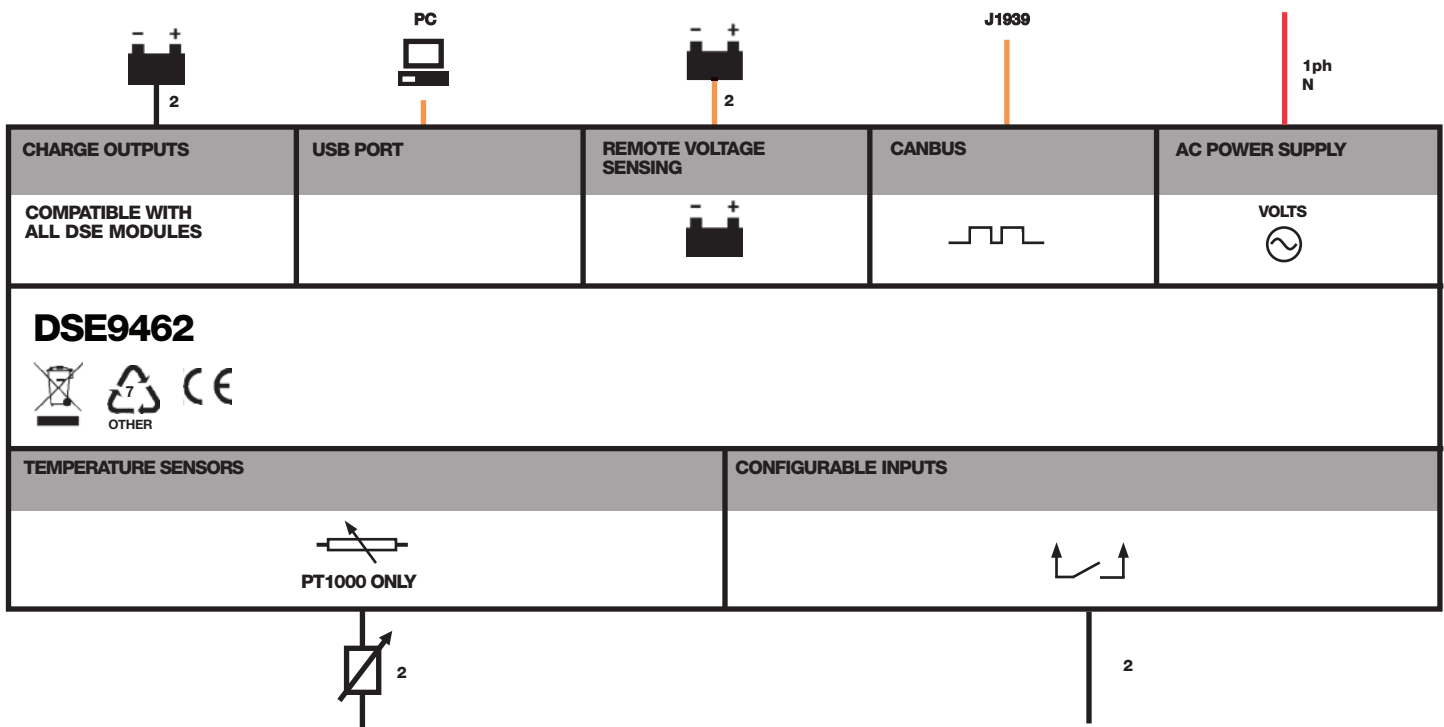
#### HUMIDITY

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



# DSE9462

## 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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