

# DSE9140/9260

## SWITCH MODE BATTERY CHARGERS

### 10 AMP 12 & 24 VOLT OPTIONS

#### FEATURES



The DSE 10 Amp Switch Mode Battery Chargers are designed to be permanently connected to a battery, keeping it charged to maximum capacity. The chargers can be mounted to the chassis or panel using the fixing points or optional DIN rail clips.

The chargers' stylish design includes two LED indicators on the front to show when the charger is connected to the mains/utility supply and to indicate when a fault condition occurs.

The chargers do not include any moving parts to give added durability and reliability. They will also continue to operate during cranking and running. Both chargers can also accept multiple voltage connections.

#### 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

##### TEMPERATURE

BS EN 60068-2-1  
Ab/Ae Cold Test -30 °C  
BS EN 60068-2-2  
Bb/Be Dry Heat +55 °C

##### 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

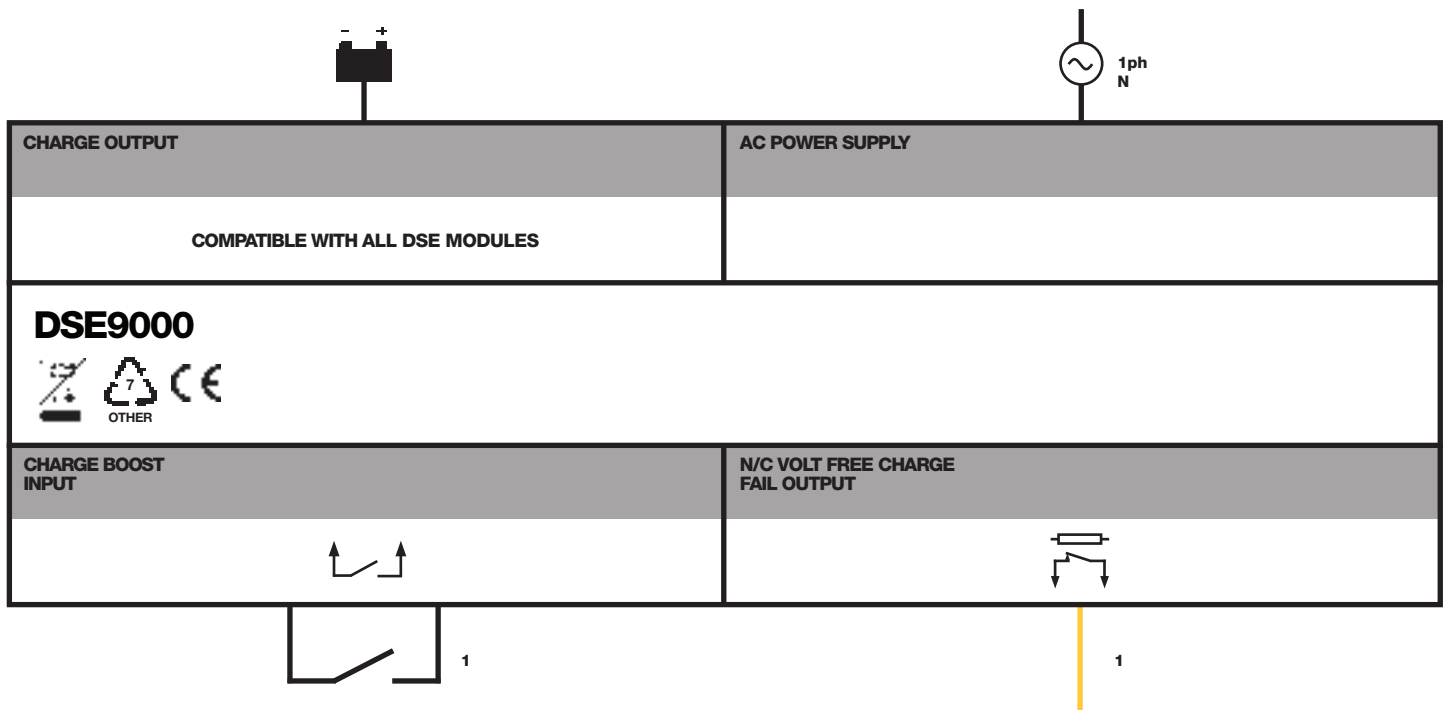
##### HUMIDITY

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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## SWITCH MODE BATTERY CHARGERS

### 10 AMP 12 & 24 VOLT OPTIONS

#### FEATURES



DSE9140 - 10 A 12 V  
DSE9260 - 10 A 24 V

#### ADVANCED FEATURES

##### Multi-Stage Intelligent Charging

- Constant current- Maximum current available during charge recovery phase
- Constant voltage
- Chargers automatically return to float mode when charging is complete

##### Low Output Ripple

- Makes the chargers ideal for all battery types

##### Full Protection

- Reverse polarity protection, short circuit protection and current limiting

- Automatic recovery after the removal of fault conditions

##### Boost Mode

- Boosts and equalises cell charge improving battery performance and life
- Simple boost connection using on-board terminals

##### Power Save Mode

- Once the battery is fully charged the chargers switch to Eco-Power to save energy

#### KEY BENEFITS

- Suitable for a wide range of battery types
- No moving parts for longer battery charger life
- Switched mode design
- Charger fail output
- Minimum 80% efficiency throughout full operating range

#### SPECIFICATION

##### AC SUPPLY

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

##### FREQUENCY RANGE

48 Hz to 64 Hz (L-N)

##### DC OUTPUT

**DSE9140 OUTPUT**  
10 A DC 12 V DC at 13.7 V DC

##### DSE9260 OUTPUT

10 A DC 24 V DC at 27.6 V DC

##### RIPPLE AND NOISE

<1%

##### EFFICIENCY

>80%

##### REGULATION

**LINE**  
<1%  $V_o$

##### LOAD

<2%  $V_o$

##### PROTECTIONS

Short Circuit  
Over Current  
Reverse Polarity

##### DIMENSIONS

**DSE9140 & DSE9260 DIMENSIONS**  
152 mm x 188 mm x 62 mm  
6" x 7.4" x 2.44"

##### DSE9140 WEIGHT

0.7 kg

##### DSE9260 WEIGHT

0.8 kg

#### RELATED MATERIALS

##### TITLE

DSE9000 Series Installation Instructions  
DSE9000 Series Operator Manual

##### PART NO'S

053-049  
057-085

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