

DSE9130, DSE9150, DSE9155 & DSE9255

COMPACT BATTERY CHARGERS

2 AMP, 3 AMP & 5 AMP OPTIONS

FEATURES



The 2 Amp, 3 Amp and 5 Amp Battery Chargers have been designed to be permanently connected to a battery, keeping it charged to maximum capacity.

The chargers can be either mounted via DIN rail or to the chassis, using the fixing holes that are built into the case. The chargers stylish design includes an LED indicator on the front that shows when the charger is in a normal or overload condition.

The chargers will continue to operate during cranking and running. All chargers can accept multiple AC voltage connections.

The DSE battery chargers are expertly designed using high-grade components and capacitors allowing the units to function more efficiently, providing a longer and more reliable life-span than other chargers in their class. Their in-built robustness makes them ideal for the rigours of a wide variety of markets including heavy and light industrial environments.

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

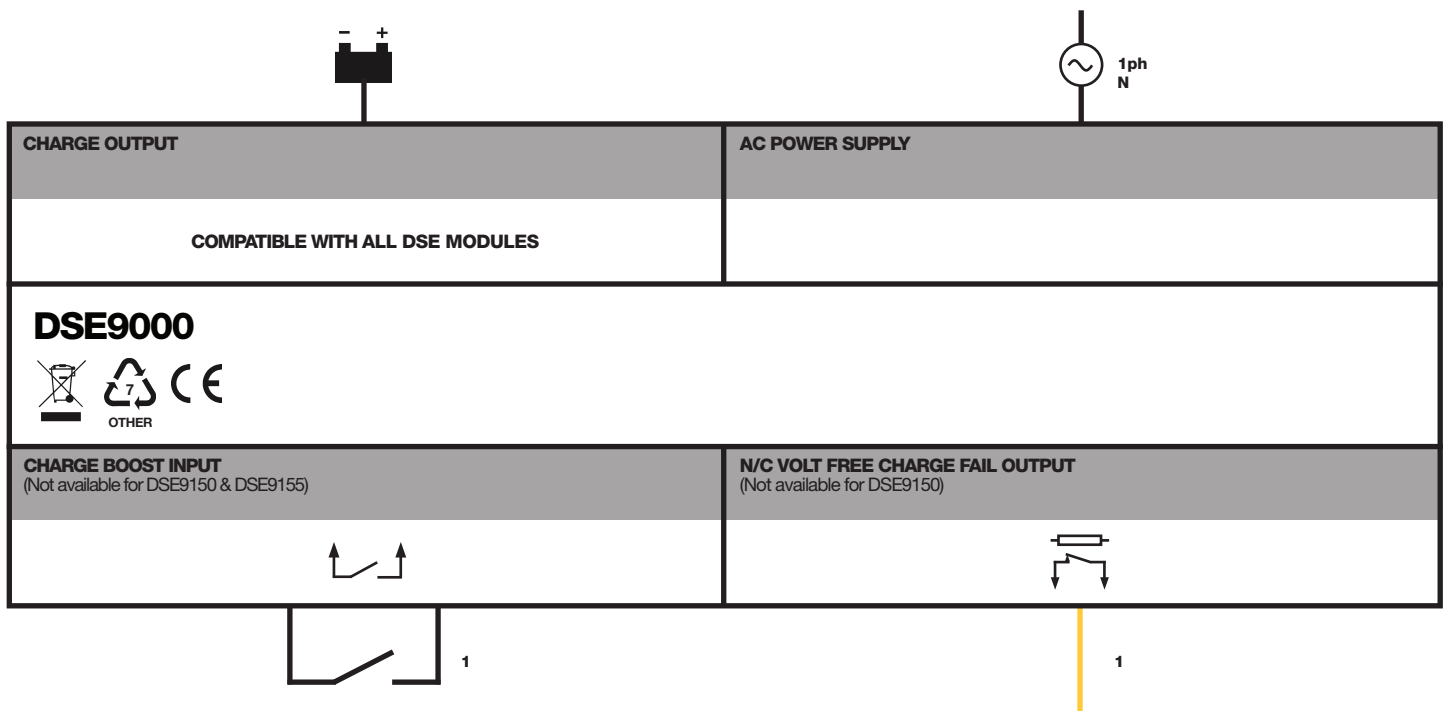
HUMIDITY

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

FEATURE LIST TO SUIT A WIDE VARIETY OF APPLICATIONS



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FEATURES



DSE9150 - 3 A 12 V



DSE9130 - 5 A 12 V
DSE9155 - 2 A 30 V
DSE9255 - 5 A 24 V

ADVANCED FEATURES

Multi-Stage 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
- Charge fail output
- Minimum 80% efficiency throughout full operating range
- Paralleling Feature
 - Multiple modules can be linked together to provide larger current output

SPECIFICATION

AC SUPPLY

FREQUENCY RANGE
48 Hz to 64 Hz

DSE9130 & DSE9255 VOLTAGE RANGE
90 V to 305 V (L-N)

DSE9150 VOLTAGE RANGE
90 V to 265 V (L-N)

DSE9155 VOLTAGE RANGE
85 V to 265 V (L-N)

DC OUTPUT

DSE9130 OUTPUT
5 A DC 12 V DC at 13.7 V DC

DSE9150 OUTPUT
3 A DC 12 V DC at 13.7 V DC

DSE9155 OUTPUT
2 A DC 30 V DC at 34.3 V DC

DSE9255 OUTPUT
5 A DC 24 V DC at 27.4 V DC

RIPPLE AND NOISE
<1%

EFFICIENCY
>80%

REGULATION
LINE
<0.001% Vo

LOAD
1% Vo

PROTECTIONS

Short Circuit
Over Voltage
Over Current
Reverse Polarity

DIMENSIONS

DSE9150 DIMENSIONS
108 mm x 101 mm x 49 mm
4.2" x 4" x 1.9"

WEIGHT
0.16 kg

DSE9130, DSE9155 & DSE9255 DIMENSIONS
136 mm x 140 mm x 63 mm
5.4" x 5.5" x 2.5"

WEIGHT
0.5 kg

OPERATING TEMPERATURE RANGE
-30 °C to +55 °C
-22 °F to +122 °F

STORAGE TEMPERATURE RANGE
-40 °C to +85 °C
-40 °F to +185 °F

RELATED MATERIALS

TITLE

DSE9000 Series Installation Instructions
DSE9000 Series Operator Manual

PART NO'S

053-049
057-085

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