

DSE9701 & DSE9702

VERTICAL 5 AMP BATTERY CHARGERS

FEATURES



The vertical 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 vertically via DIN rail or to the panel chassis, using the fixing holes that extend from 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 charger will continue to operate during cranking and running. The charger can accept multiple AC voltage connections.

The DSE vertical battery chargers are expertly designed using high-grade components and capacitors allowing the unit 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 at +/-7.5 mm,
8 Hz to 500 Hz at 2 GN

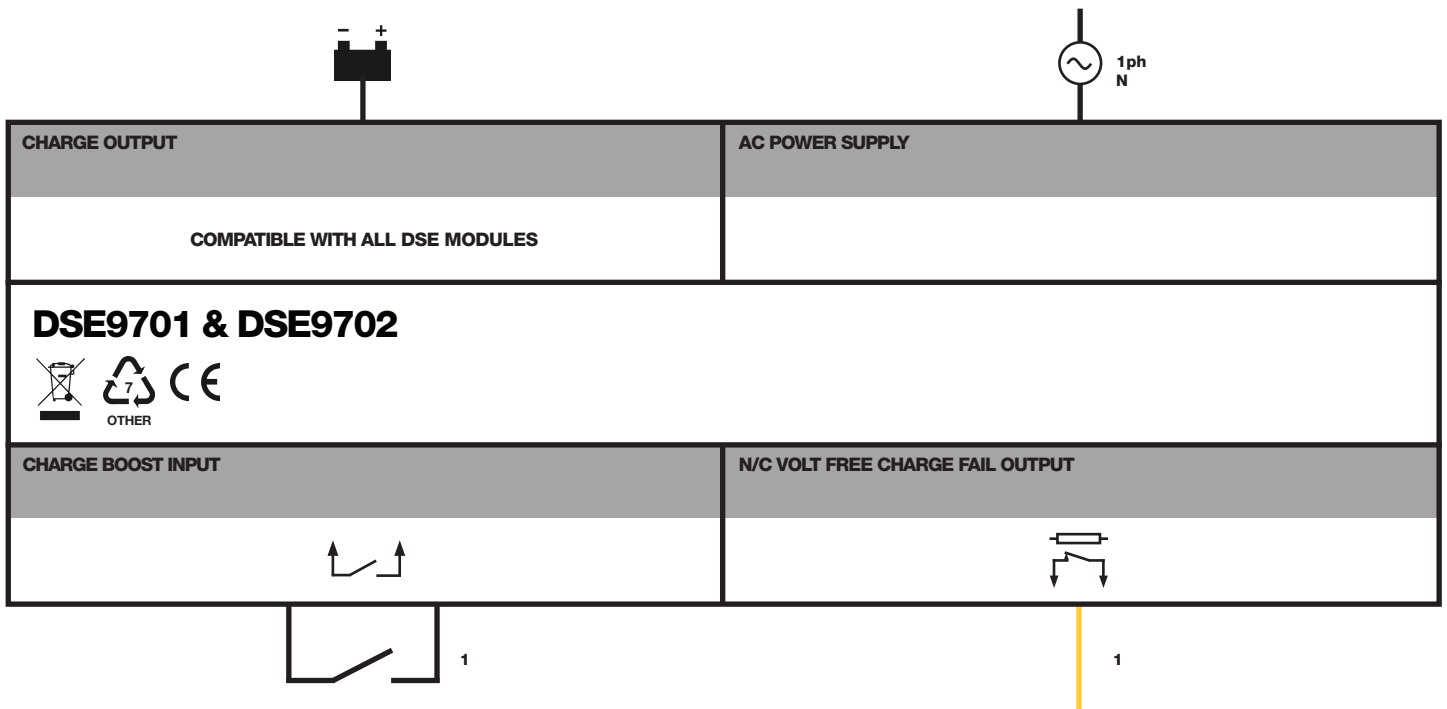
HUMIDITY

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

FEATURE LIST TO SUIT A WIDE VARIETY OF APPLICATIONS



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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
- Battery charger thermal de-rate facility

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

- Small and compact size
- 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
45 Hz to 65 Hz

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

DC OUTPUT

DSE9701 OUTPUT
5 A DC 24 V DC

DSE9702 OUTPUT
5 A DC 12 V DC

RIPPLE AND NOISE
<1%

EFFICIENCY
>80%

REGULATION LINE
<0.001% V_o

LOAD
1% V_o

PROTECTIONS

Short Circuit
Over Voltage
Over Current
Reverse Polarity

DIMENSIONS

DIN Rail Mounted
48 mm x 133 mm x 110 mm
1.9" x 5.2" x 4.3"

Screw Mounted
48 mm x 153 mm x 112 mm
1.9" x 6.0" x 4.4"

WEIGHT
0.4 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

DSE9701 & DSE9702 Series Installation Instructions
DSE9701 & DSE9702 Operator Manual

PART NO'S

053-170
057-252

DEEP SEA ELECTRONICS PLC UK

Highfield House, Hunmanby Industrial Estate, Hunmanby YO14 0PH
TELEPHONE +44 (0) 1723 890099 **FACSIMILE** +44 (0) 1723 893303
EMAIL sales@deepseapl.com **WEBSITE** www.deepseapl.com

DEEP SEA ELECTRONICS INC USA

3230 Williams Avenue, Rockford, IL 61101-2668 USA
TELEPHONE +1 (815) 316 8706 **FACSIMILE** +1 (815) 316 8708
EMAIL sales@deepseausa.com **WEBSITE** www.deepseausa.com