

# 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

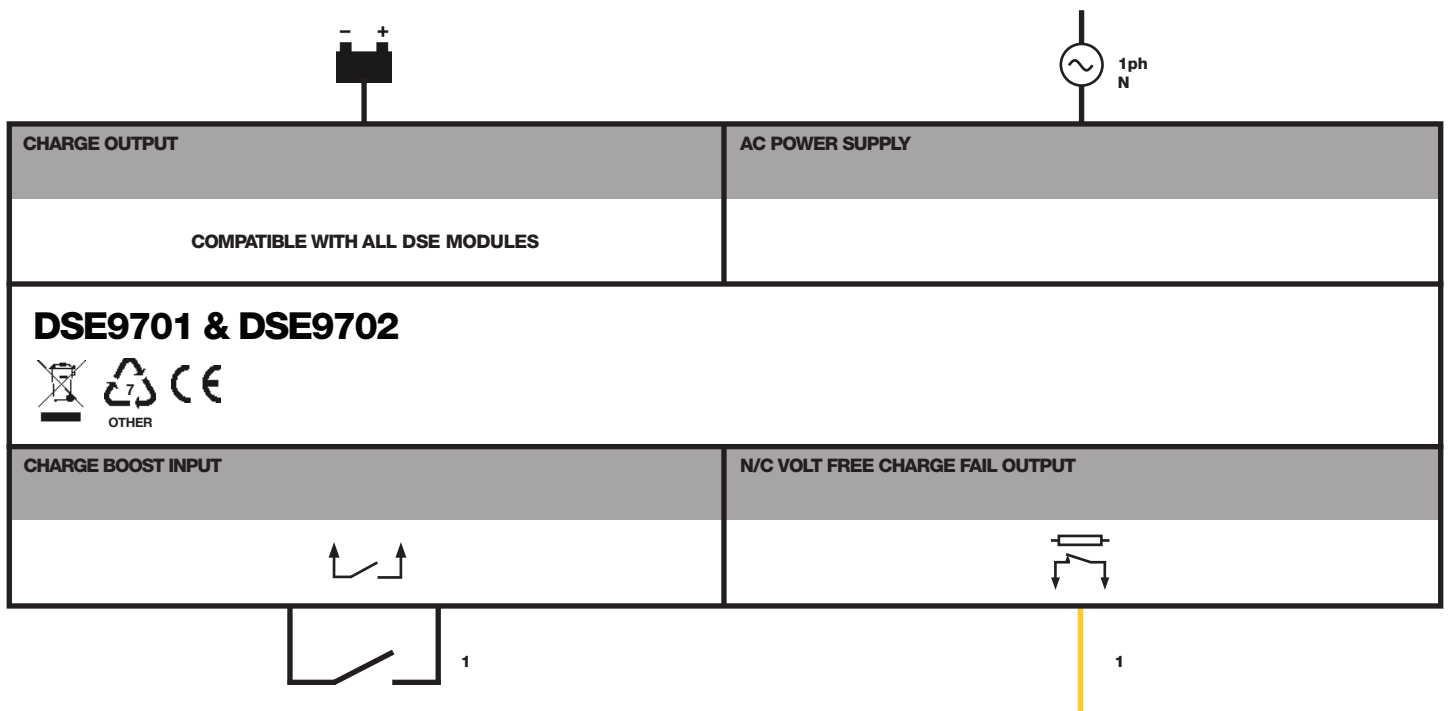
#### HUMIDITY

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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### FEATURES



### 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% Vo

**LOAD**  
1% Vo

**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