



DSE9701 & DSE9702 BATTERY CHARGER  
INSTALLATION INSTRUCTIONS

**⚠ DANGER OF DEATH : LIVE PARTS exist within the Battery Charger enclosure. The enclosure cover must not be removed.**

**Installation**

The DSE9701 (24V 5A) & DSE9702 (12V 5A) battery chargers are designed to be mounted vertically within a control panel, on the panel DIN rail utilising the integral mounts or on a chassis utilising the mounting holes. For dimension and mounting details, see overleaf. DSE battery chargers are *fit-and-forget*. They are permanently connected to the supply and the load, with no requirement to disable the charger during times of heavy load (such as engine cranking) or when in parallel with a charging alternator.

**Battery Suitability**

The charger is factory set by DSE to suit Lead Acid batteries but can be adjusted at the time of ordering to suit other battery types. Care must be taken to ensure the batteries connected to the charger are of the correct 'technology' to suit the setting of the charger.

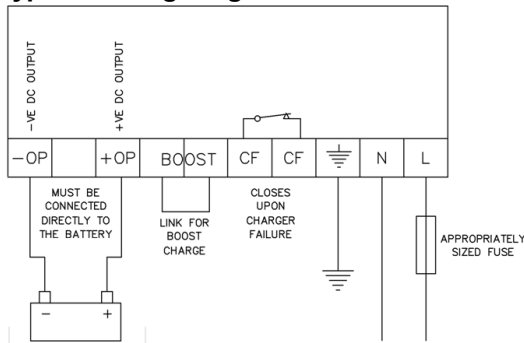
**Indications**

The Battery Chargers feature an LED indicator(s) to show the battery charger *Status*. (Refer to DSE publication: 057-085 DSE9xxx Series Operator Manual for further information)

**Boost Mode**

Boost mode is operated by connecting the *BOOST* terminals together for instance with an external switch or timer circuit. This will raise the battery charger floating voltage by 0.8V DC.

**Typical Wiring Diagram**

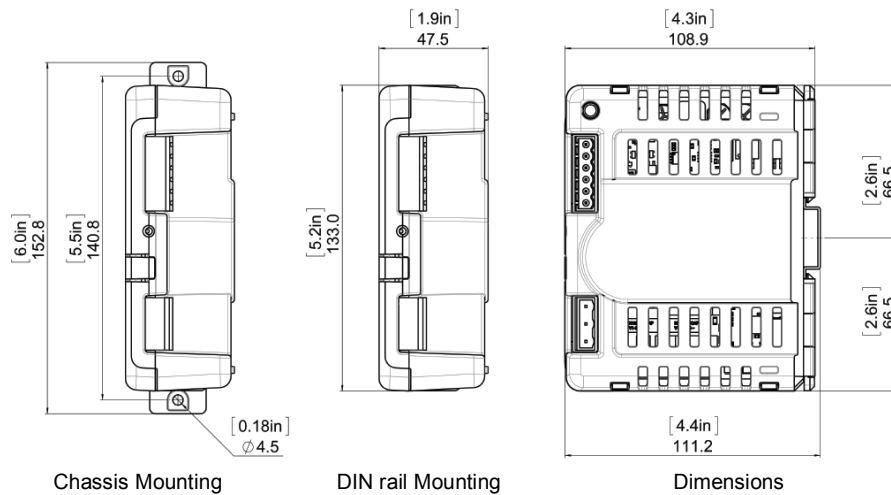


Connection Type	Screw Terminal, Rising Clamp, No Internal Spring
Min Cable Size	0.5mm <sup>2</sup> (AWG 20)
Max Cable Size	2.5mm <sup>2</sup> (AWG 14)
DSE9701 AC Fuse (230 V AC Supply)	2.0 A Anti-Surge
DSE9701 AC Fuse (110 V AC Supply)	3.5 A Anti-Surge
DSE9702 AC Fuse (230 V AC Supply)	1.0 A Anti-Surge
DSE9702 AC Fuse (110 V AC Supply)	2.0 A Anti-Surge

**⚠ NOTE : This document is intended as a 'quick start' guide only. For full operating instructions and specifications, refer to DSE publication: 057-085 DSE9xxx Series Operator Manual.**

## Dimensions and Mounting

Overall Size for DIN Rail Mounting	47.5 mm x 152.8 mm x 111.2 mm (1.9" x 6.0" x 4.4")
Overall Size for Chassis Mounting	47.5 mm x 133.0 mm x 111.2 mm (1.9" x 5.2" x 4.4")
Weight	0.4 kg
Mounting Type	DIN Rail or Chassis Mounting
DIN Rail Type	EN 50022 35 mm Type Only
Mounting Holes (DIN Rail Clips Pushed Outwards to Reveal Mounting Holes)	Suitable for M4
Mounting Hole Centres	140.8 mm (5.5")
Input Voltage (Nominal)	110 V - 277 V
Input Voltage (Absolute Range)	90 V - 305 V
Charge Failure Relay Rating	3 A DC Resistive, 30 V Maximum
Operating Temperature	-30 °C to 55 °C (-22 °F to 131 °F)
Over Temperature Protection	Above 70 °C (158 °F) the maximum output current is limited to protect the device. This limiting increases linearly as temperature increases until at 100 °C (212 °F), the maximum output current is limited to 1 A DC.



Dimensions in mm unless otherwise specified

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