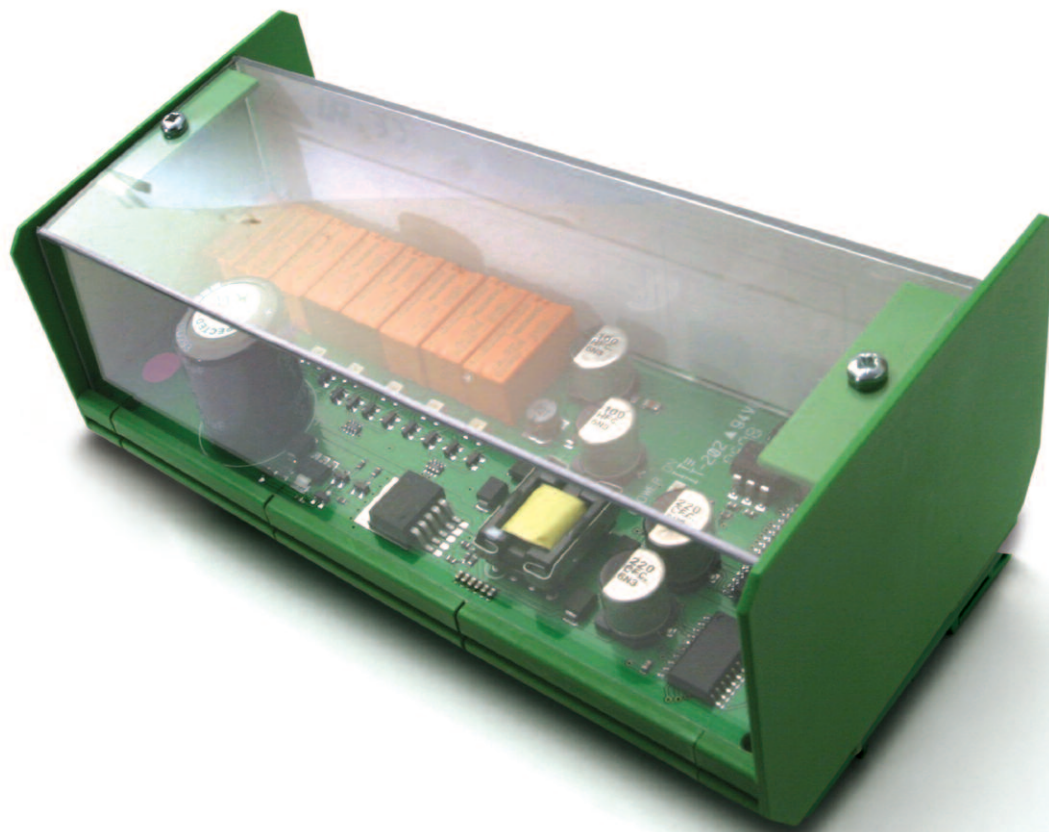


# DSEEXTRA<sup>®</sup> BATTERY CHARGERS AND EXPANSION MODULES.



## DSE157

OUTPUT RELAY EXPANSION MODULE



The DSE157 is an output relay expansion module for use with DSEControl<sup>®</sup> and DSEPower<sup>®</sup> Series Modules (excluding DSE51xx).

The DSE157 has been designed to extend a host modules output capabilities. The additional capabilities allow OEM's to meet increasingly complex industry specifications.

The module incorporates 'DIN' rail mountings and an interconnecting FCC 68 cable, allowing quick fixing into a panel. The module will work up to 50 meters from the host control module.

### FEATURES

- 8 configurable relay contacts
- Plug and socket host connection for quick and easy set-up
- Two DSE157 modules can be linked together to provide 16 additional outputs (DSE53xx and DSE55xx modules only).

### CONFIGURATION

The DSE157 is configured via the host control module and PC software.

Relay contacts can be configured to be either:

- de-energised - open on command
- energised - close on command

When using two DSE157's together, each module needs to be identified as either 'A' or 'B'. This can be done via the small selector switch on the circuit board.

### SPECIFICATION

#### DC SUPPLY

The DSE157 is powered from the plant battery or from a low voltage supply between 8V and 35V continuous. It is able to survive 0V for 50ms during cranking, providing supply was at least 10V before dropout and supply recovers to 5V. This is achieved without the need for internal batteries.

#### MAXIMUM OPERATING CURRENT

120mA @ 12V, 70mA @ 24V

#### MAXIMUM STANDBY CURRENT

25mA @ 12V, 18mA @ 24V

#### AUXILIARY RELAY CONTACTS

5Amp DC rated voltage free

#### DIMENSIONS

DIN Rail mounted housing  
72mm x 160mm x 77mm  
2.8" x 6.3" x 3"

#### SELECTOR SWITCHES

Test - Operates all relays to test operation  
Unused - No function  
Enable Lamp Test - Relays will energise on receipt of a lamp test signal from host module  
A/B Select - Determines whether the 157 responds to signals for expansion A or B relays

#### INDICATIONS

Lit LED - Power On  
Flashing LED - Link lost (to controller)  
8 Relay active LED's

### ENVIRONMENTAL TESTING STANDARDS

#### ELECTRO MAGNETIC CAPABILITY (EMC)

BS EN 61000-6-4  
EMC Generic Emission Standard for the Industrial Environment  
BS EN 61000-6-2  
EMC Generic Immunity Standard for the Industrial Environment

#### ELECTRICAL SAFETY

BS EN 60950  
Safety of Information Technology Equipment including Electrical Business Equipment

#### TEMPERATURE

BS EN 60068-2-2  
Test Ab to 70°C  
Test Ab to -30°C

#### VIBRATION

BS EN 60068-2-6  
Ten sweeps in each of the three major axes  
5Hz to 8Hz @ +/- 7.5mm

#### HUMIDITY

BS EN 60068-2-30  
Test Db 95% RH @ 55°C for 12 hours

#### SHOCK

BS EN 60068-2-27  
Three shocks in each of three major axes  
15gn in 11ms

**DEEP SEA ELECTRONICS PLC**

Highfield House  
Hunmanby Industrial Estate  
Hunmanby, North Yorkshire  
YO14 0PH England

Registered in England & Wales No.01319649

**DEEP SEA ELECTRONICS PLC THAILAND**

TPI Tower, Lobby 3  
Floor 27, 26-56 Chan New Road  
Tungmahamek, Sathom  
Bangkok 10120, Thailand

**DEEP SEA ELECTRONICS INC USA**

3230 Williams Avenue  
Rockford  
IL 61101-2668 USA

**TELEPHONE**

+44 (0)1723 890099

**FACSIMILE**

+44 (0)1723 893303

VAT No.316923457

**TELEPHONE**

+66 (0) 2678 3028

**FACSIMILE**

+66 (0) 2670 6228

**TELEPHONE**

+1 (815) 316 8706

**FACSIMILE**

+1 (815) 316 8708

**EMAIL**

sales@deepseapl.com

**WEBSITE**

www.deepseapl.com

**EMAIL**

sales@dseplc.com

**WEBSITE**

www.deepseapl.com

**EMAIL**

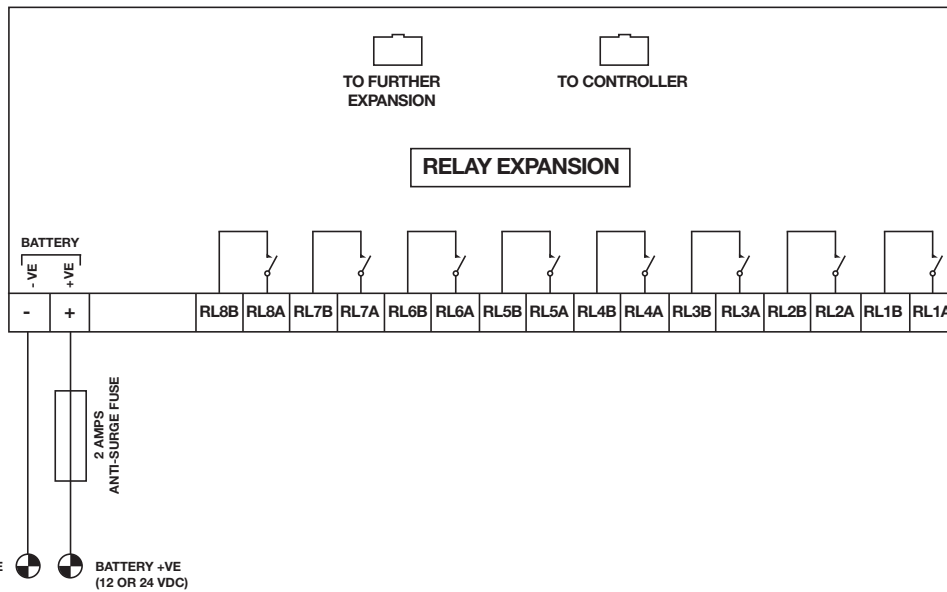
sales@deepseausa.com

**WEBSITE**

www.deepseausa.com



# DSE157

**RELATED MATERIALS****TITLE**

DSE5210 & 5220 data sheet  
DSE5210 manual  
DSE5220 manual  
DSE5310 & 5320 data sheet  
DSE5320 manual  
DSE5310 manual  
52/53xx Software Manual  
55xx Software Manual

**PART NO'S**

055-037  
053-023  
057-016  
055-038  
057-014  
057-013  
057-006  
057-007

**TITLE**

DSE5510 data sheet  
DSE5510 manual  
DSE5520 data sheet  
DSE5520 manual  
DSE5560 data sheet  
DSE5560 manual

**PART NO'S**

055-039  
057-015  
055-040  
057-016  
055-041  
057-017

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