

# DSEPOWER<sup>®</sup> SHARING WITH SIMPLICITY



## DSE8660 AUTO TRANSFER SWITCH & MAINS (UTILITY) CONTROL MODULE

The DSE8660 is an easy-to-use single or multi-mains controller with automatic transfer switch capability. Designed to synchronise single or multiple DSE8610s with single or multiple mains (utility) supplies, the DSE8660 will automatically control the change over from mains (utility) to generator supply or run generators in synchronisation with the mains (utility) to provide no-break, peak lopping and peak shaving power solutions.

The module can indicate operational status and fault conditions on the LCD screen (multiple languages available), by lit LED, audible sounder and SMS messaging. Sophisticated communications are also

available via RS485 and RS232 for remote PC control and monitoring, and integration into building management systems. The comprehensive event log will record up to 250 events to facilitate easy maintenance.

An extensive number of fixed and flexible monitoring and protection features are included. Easy alteration of the sequences, timers and alarms can be made using the DSE PC Configuration Suite Software. Selected programming is also available via the module's front panel making the DSE8660 ideal for a wide variety of load share applications.

### LOAD SHARE FEATURES INCLUDE:

- Peak lopping
- Sequential set start
- Manual voltage/frequency adjustment
- ROCOF and vector shift
- Generator load demand
- Automatic hours run balancing
- Mains (Utility) de-coupling
- Mains (Utility) de-coupling test mode
- Bus failure detection
- Volts and frequency matching

### 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

#### ELECTRICAL SAFETY

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

#### TEMPERATURE

BS EN 60068-2-1  
Ab/Ae Cold Test -30°C  
BS EN 60068-2-2  
Bb/Be Dry Heat +70°C

#### VIBRATION

BS EN 60068-2-6  
Ten sweeps in each of three major axes  
5Hz to 8Hz @ +/-7.5mm, 8Hz to 500Hz @ 2gn

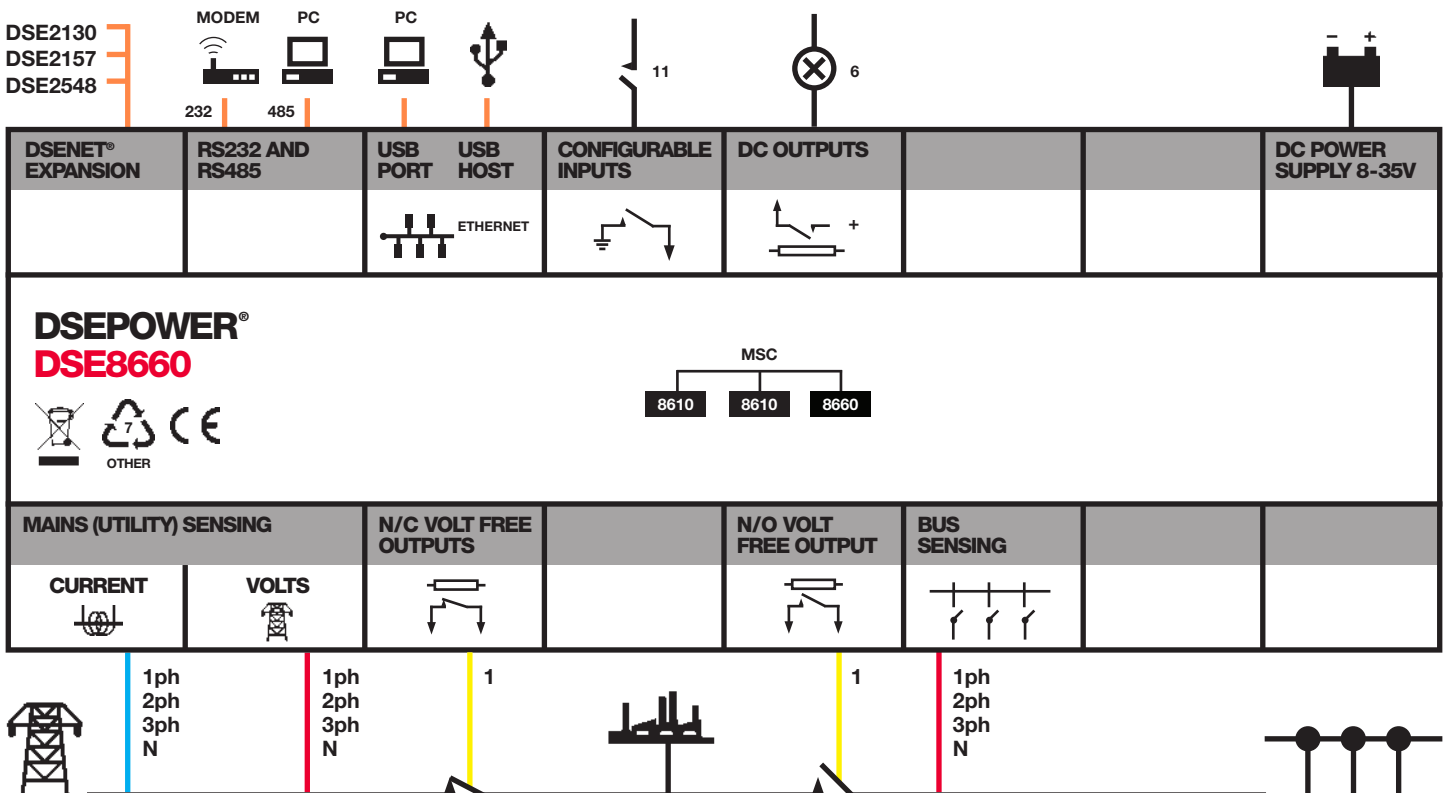
#### HUMIDITY

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 15gn in 11ms

## COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF LOAD SHARE APPLICATIONS



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### FEATURES

- Configurable inputs (11)
- Configurable outputs (8)
- Voltage measurement
- RS232 & RS485 remote communications
- Modbus RTU
- Multi event exercise timer
- Back-lit LCD 4-line text display
- Multiple display languages
- Automatic start/Manual start
- Audible alarm
- Fixed and flexible LED indicators
- Event log (250)
- Fault condition notification to a designated PC
- Front panel mounting

- Protected front panel programming
- PC configuration
- Configurable alarms and timers
- Configurable start and stop timers
- SMS alert messaging
- Remote monitoring

### BENEFITS

- RS232 & RS485 can be used at the same time
- DSENet connection for system expansion
- High number of inputs and outputs
- Worldwide Language Support
- Configuration Suite PC Software
- Direct USB connection to PC

- Ethernet monitoring\*
  - USB Host\*
  - Data Logging & Trending\*
- \* To follow

### EXPANSION DEVICES

- DSE2548 LED Expansion Module
- DSE2130 Input Expansion Module
- DSE2157 Output Expansion Module
- DSE124 CAN/MSC Extender

### SPECIFICATION

#### DC SUPPLY

8V to 35V continuous

#### CRANKING DROPOUTS

Able to survive 0V for 50mS, 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

460mA at 12V. 245mA at 24V

#### MAXIMUM STANDBY CURRENT

375mA at 12V. 200mA at 24V

#### ALTERNATOR INPUT RANGE

15V AC (L-N) to 333V AC (L-N) absolute maximum

#### ALTERNATOR INPUT FREQUENCY

50Hz - 60Hz at rated engine speed (Minimum: 15V AC L-N)

#### AUXILIARY RELAY OUTPUTS

Six outputs 2A DC at supply voltage  
Two outputs volt free 2A at 250V

#### DIMENSIONS

240mm x 172mm x 57mm  
9.4" x 6.8" x 2.2"

#### PANEL CUTOUT

220mm x 160mm  
8.7" x 6.3"

#### ENCLOSURE PROTECTION

(front of module)  
IP65 (with optional gasket)  
IP42 (without gasket)

### RELATED LITERATURE

DSE8660 Operator Manual  
DSE8660 Installation Instructions  
DSE8600 PC Configuration Suite Manual  
DSE8610 Data Sheet

### PART NO

057-120  
053-070  
057-119  
055-083

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