

DSEPOWER[®] 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

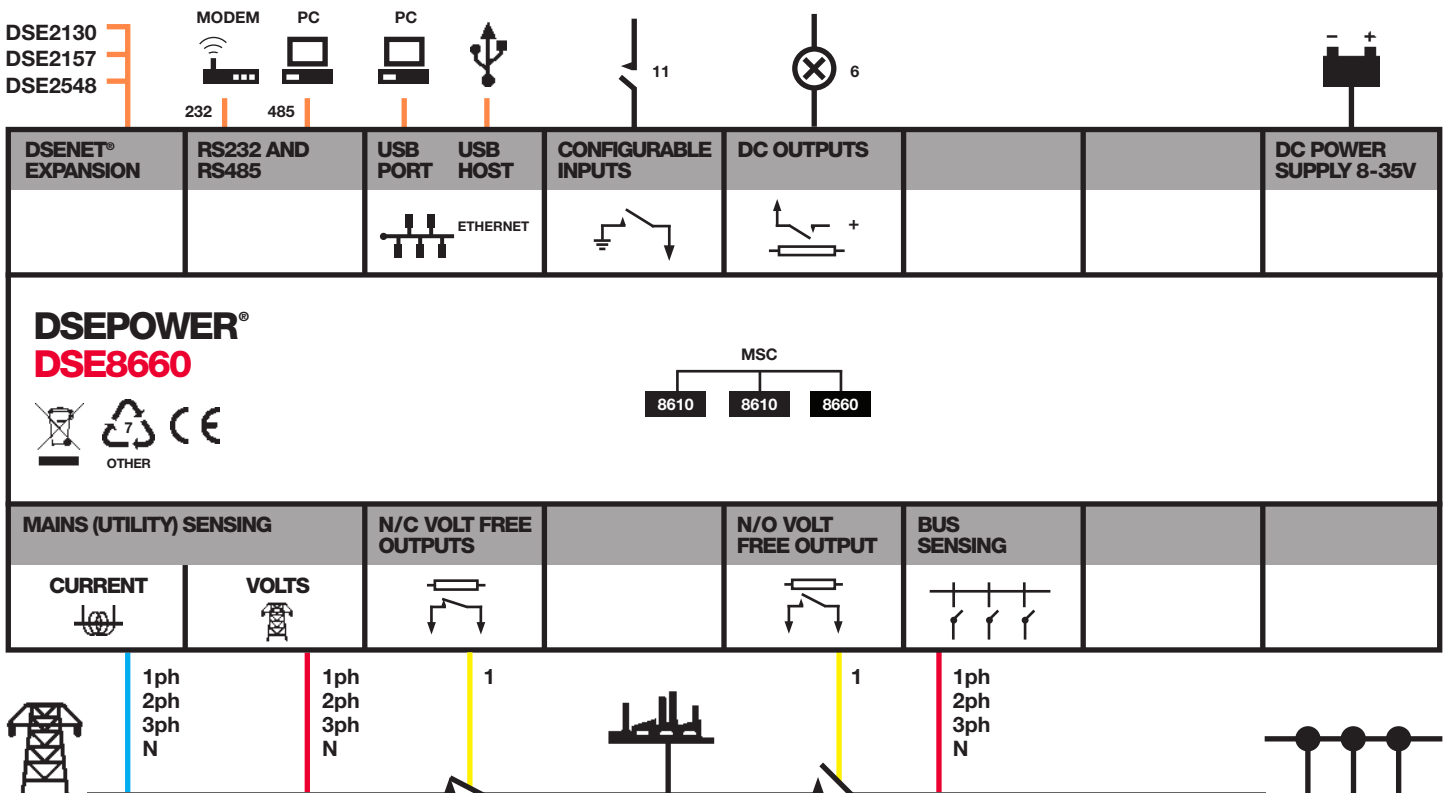
HUMIDITY

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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