



GENSET PART



SYNCHRONISING GENERATOR BUS-TIE CONTROL MODULE

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With all communication ports capable of being active at the same time, the DSE8680 is ideal for a wide variety of demanding load share applications.

GENSET

Db Damp Heat Cyclic 20/55°C
48 Hours
BS EN 60068-2-78
Cab Damp Heat Static 40°C
48 Hours

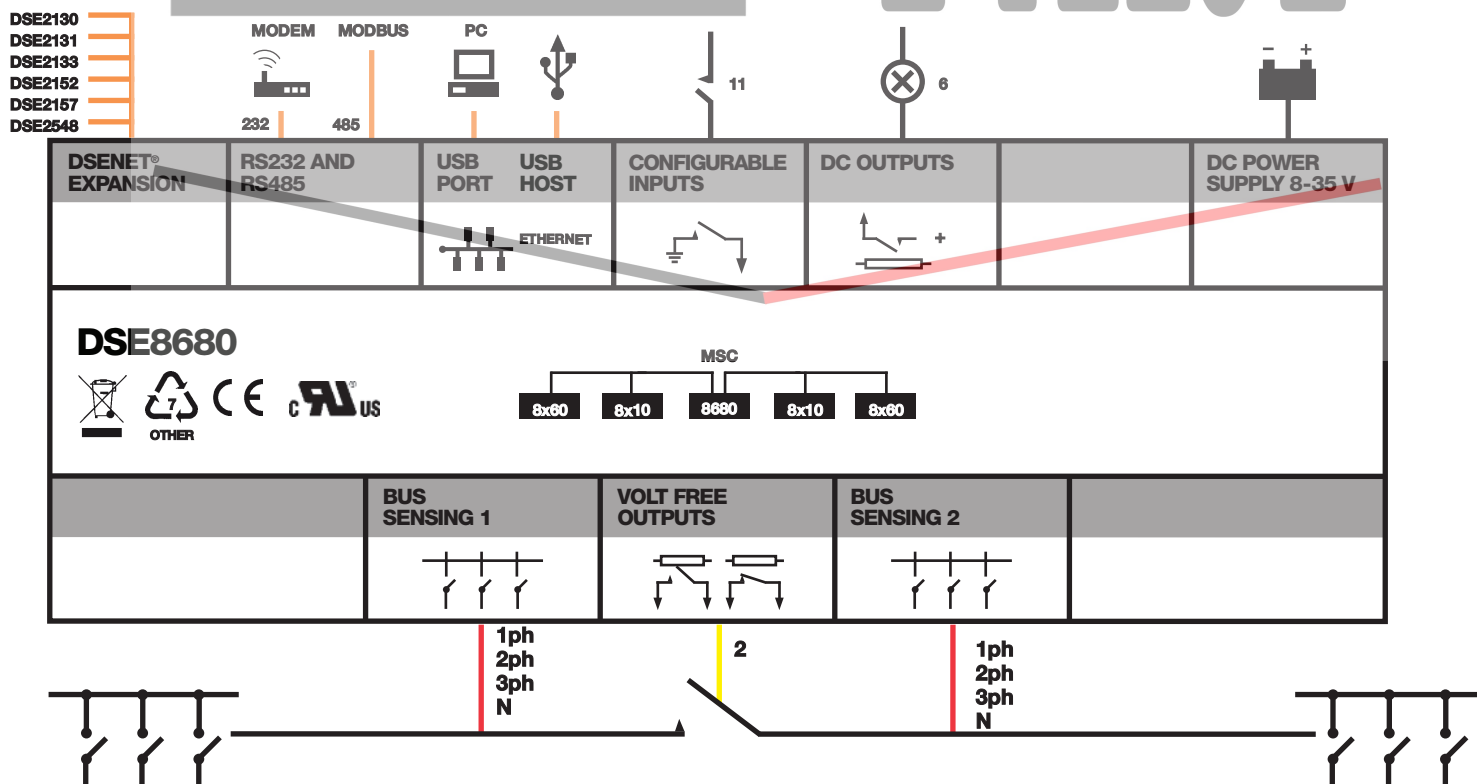
SHOCK
BS EN 60068-2-27
Three shocks in each of three
15gn in 11mS

**DEGREES OF PROTECTION
PROVIDED BY ENCLOSURE**
BS EN 60529
IP65 - Front of module when
control panel with the supplies

PART

RIETY

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF GEN-SET APPLICATIONS



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
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

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS EN 60529
IP65 - Front of module when installed into the control panel with the supplied sealing gasket.

DSE8680

SYNCHRONISING GENERATOR BUS-TIE CONTROL MODULE

FEATURES



KEY FEATURES

- Comprehensive synchronising & loadshare capabilities
- Connects to two DSE MSC links, one for 'bus 1' and another for 'bus 2'
- Advanced integral PLC editor
- 11 Configurable inputs
- 8 Configurable outputs
- DSENet® expansion compatibility
- User configurable RS232, RS485 and Ethernet communications
- Remote SCADA monitoring via various DSE software applications
- MODBUS RTU & TCP support
- User configurable MODBUS pages
- Advanced SMS control and fault messaging (additional GSM modem required)
- Easy access diagnostic pages including modem diagnostic pages
- Data logging and trending
- Front panel editing with PIN protection

- Fully configurable using DSE Configuration Suite PC software via USB
- 4 Line back-lit LCD text display
- LED and LCD alarm indication
- Configurable display languages
- Customisable status screens
- Configurable event log (250)
- Backed up real time clock

KEY BENEFITS

- Automatic control of the DSE MSC link when the breaker is opened/closed for synchronising
- Instrumentation shows the status and measurements of both buses
- Built-in RS232, RS485 & Ethernet can be used at the same time
- High number of inputs and outputs
- Worldwide Language Support
- Compatible in load share systems containing DSE5500, DSE7500 and DSE8600 series. Contact DSE for further details.
- 132 x 64 pixel ratio display for clarity

- Real-time clock provides accurate event logging
- Ethernet communications, provides advanced remote monitoring at low cost
- Can be integrated into building management systems (BMS)
- Increased input and output expansion capability via DSENet®
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- PLC editor allows user configurable functions to meet specific application requirements

SPECIFICATION

DC SUPPLY
CONTINUOUS VOLTAGE RATING
8 V to 35 V Continuous

MAXIMUM OPERATING CURRENT
150 mA at 12 V, 80 mA at 24 V

MAXIMUM STANDBY CURRENT
50 mA at 12 V, 30 mA at 24 V

BUS 1 AND BUS 2
VOLTAGE RANGE
15 V to 333 V AC (L-N)

FREQUENCY RANGE
3.5 Hz to 75 Hz

OUTPUTS
OUTPUTS C & D
8 A at 250 V AC (Volt free)

AUXILIARY OUTPUTS E, F, G, H, I & J
2 A DC at supply voltage

DIMENSIONS
OVERALL
240 mm x 181 mm x 42 mm
9.4" x 6.8" x 1.6"

PANEL CUTOUT
220 mm x 160 mm
8.7" x 6.3"

MAXIMUM PANEL THICKNESS
8 mm
0.3"

OPERATING TEMPERATURE
RANGE -30 °C to +70 °C

STORAGE TEMPERATURE RANGE
-40 °C to +85 °C

RELATED MATERIALS

TITLE

DSE8680 Installation Instructions
DSE8680 Operator Manual
DSE8680 Configuration Suite PC Software Manual

PART NO'S

053-082
057-130
057-131

TITLE

DSE8610 Data Sheet
DSE8660 Data Sheet
DSE8700 Series Data Sheet
DSE8810 Data Sheet
DSE8860 Data Sheet

PART NO'S

055-083
055-086
055-090
055-116
055-139