DSEGenset®

DSE

DSE**8660 MKII**
AUTO TRANSFER SWITCH & MAINS CONTROL MODULE

EXPANSION DEVICES
- DSE124 CAN/MSC Extender
- DSE2130 Input Expansion Module
- DSE2131 Ratio-metric Input Expansion Module
- DSE2133 RTD & Thermo-couple Expansion Module
- DSE2152 Ratio-metric Output Expansion Module
- DSE2157 Output Expansion Module
- DSE2548 LED Expansion Module

KEY FEATURES
- Mains (utility) failure detection
- Mains (utility) power monitoring (kW, kV Ar, kV A and pf)
- Comprehensive synchronising and loadsharing capabilities
- Peak lopping & shaving functionality
- Mains (utility) kW export protection
- Mains (utility) de-coupling protection
- Advanced integral PLC editor
- User configurable RS232, RS485 & Ethernet communications
- MODBUS RTU & TCP support
- User configurable MODBUS pages
- Advanced SMS control and fault messaging (addition GSM modem required)
- DSENet expansion compatible
- Data logging and trending
- 4-Line back-lit LCD text display
- Multiple display languages
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens

- Configurable inputs (11)
- Configurable outputs (8)
- Configurable timers and alarms
- Multiple entry scheduler
- Configurable event log (250)
- Easy access diagnostic pages
- LED and LCD alarm indication
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC Software
- Power modes for when in parallel with the mains
- Redundant MSC communication wired to CAN ports
- True manual breaker control when in manual mode
- Native no bus breaker support for signal ATS applications
- Separate ramp up and ramp down rates configurable via PLC
- In-built SNMP
- Configurable CAN transmit & receive
- Battery Chargers on DSENet®

KEY BENEFITS
- Two part solution allows upto 1.2 km between mains (utility) & bus breakers.
- Compatible with DSE5510, DSE7510 & DSE8x10 series of modules
- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Ethernet communication provided builit in advanced remote monitoring.
- Can be integrated into building management systems (BMS) and programmable logic control (PLC)
- Increased input and output expansion capability via DSENet®
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- Advanced Internal PLC editor allows user configurable functions to meet specific application requirements.

SPECIFICATIONS

DC SUPPLY
CONTINUOUS VOLTAGE RATING
5 V to 35 V Continuous

CRANKING DROPOUTS
Able to survive 0 V for 100 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT
530 mA at 12 V, 280 mA at 24 V

MAXIMUM STANDBY CURRENT
320 mA at 12 V, 160 mA at 24 V

MAINS (UTILITY) & BUS
VOLTAGE RANGE
15 V to 415 V AC (Ph to N)
25 V to 719 V AC (Ph to Ph)

Frequency RANGE
3.5 Hz to 75 Hz

INPUTS
DIGITAL INPUTS A TO L
Negative switching

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

AUXILIARY OUTPUTS E to J
2 A DC at supply voltage

DIMENSIONS
OVERALL
245 mm x 184 mm x 51 mm
9.6" x 7.2" x 2.0"

PANEL CUT-OUT
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
-40°F to +185°F

STORAGE TEMPERATURE RANGE
-40°C to +85°C
-40°F to +185°F

RELATED MATERIALS

TITLE	PART NO.
DSE8660 MKII Installation Instructions	053-184
DSE8660 MKII Operator Manual	057-259
DSE8660 MKII PC Configuration Suite Manual	057-257
DSE8610 MKII Data Sheet	055-204
DSE8610 Data Sheet	055-083

DSE8660 MKII
AUTO TRANSFER SWITCH & MAINS CONTROL MODULE

The DSE8660 MKII is an easy-to-use single or multi-mains controller with automatic transfer switch capability. Designed to synchronise single or multiple DSE8610 MKIIs and DSE8680 MKII with single or multiple mains (utility) supplies, the DSE8660 MKII 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 illuminated LED, audible sounder and SMS messaging.

Comprehensive communications are also available via RS232, RS485 & Ethernet for remote PC control and monitoring, and integration into building management systems. The comprehensive event log will record up to 250 events to facilitate 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 configuration is also available via the module's front panel.

With all communication ports capable of being active at the same time, the DSE8xxx MKII Series is ideal for a wide variety of demanding load share applications.

KEY LOAD SHARE FEATURES (WITH DSE8610 MKII) :
- Peak lopping/shaving
- Sequential set start
- Manual voltage/frequency adjustment
- R.O.C.O.F. and vector shift protection
- Generator load demand
- Automatic hours run balancing
- Mains (Utility) decoupling
- Mains (Utility) decoupling test mode
- Bus failure detection
- Volts and frequency matching.
- kW & kvar load sharing

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