

# DSE8810

## COLOUR AUTO START LOAD SHARE MODULE



### KEY FEATURES

- Configurable inputs (11)
- Configurable outputs (8)
- Built-in governor and AVR control
- Comprehensive electrical protection
- Comprehensive loadshare capabilities
- RS232, RS485 & Ethernet remote communications
- Modbus RTU/TCP support
- Back-lit LCD graphical display
- Configurable display languages
- Audible alarm
- Reduced file transfer time
- Engine protection
- Fault condition notification to a designated PC
- Front panel editing with PIN protection
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Manual fuel pump control
- "Protections disabled" feature
- kW overload protection
- Reverse power protection
- Power monitoring (kW h, kV Ar, kV A h, kV Ar h)
- Load switching (load shedding and dummy load outputs)
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- Additional display screens to help with modem diagnostics
- DSENet® expansion compatible
- Integral PLC editor

### KEY BENEFITS

- Dual processor for improved response
- RS232, RS485 & Ethernet can be used at the same time
- High number of inputs and outputs
- Worldwide language support
- Data logging & trending
- Harmonics display for clear monitoring\*
- Modules can be integrated into building management systems (BMS)
- 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

### RELATED MATERIALS

TITLE	PART NO.
DSE8810 Installation Instructions	053-137
DSE88xx Operator Manual	057-163
DSE88xx PC Configuration Suite Manual	057-164

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### SPECIFICATION

#### DC SUPPLY

**CONTINUOUS VOLTAGE RATING**  
 8 V to 35 V continuous

#### CRANKING DROPOUTS

Able to survive 0 V for 50 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

#### MAXIMUM OPERATING CURRENT

600 mA at 12 V, 300 mA at 24 V

#### MAXIMUM STANDBY CURRENT

330 mA at 12 V, 160 mA at 24 V

#### CHARGE FAIL/EXCITATION RANGE

0 V to 35 V

#### OUTPUTS

##### OUTPUT A (FUEL)

15 A DC at supply voltage

##### OUTPUT B (CRANK)

15 A DC at supply voltage

##### OUTPUTS C & D

8 A AC at 250 V AC (Volt free)

##### AUXILIARY OUTPUTS E to J

2 A DC at supply voltage

#### GENERATOR & BUS

**VOLTAGE RANGE**  
 15 V to 333 V AC (L-N)

#### FREQUENCY RANGE

3.5 Hz to 75 Hz

#### MAGNETIC PICK-UP

**VOLTAGE RANGE**  
 +/- 0.5 V to 70 V

#### FREQUENCY RANGE

10,000 Hz (max)

#### BUILT-IN GOVERNOR CONTROL

##### MINIMUM LOAD IMPEDANCE

1000Ω  
 Fully isolated

##### GAIN VOLTAGE

0 V to 10 V DC  
 Fully isolated

##### OFFSET VOLTAGE

+/- 10 V DC  
 Fully isolated

#### BUILT-IN AVR CONTROL

##### MINIMUM LOAD IMPEDANCE

1000Ω  
 Fully isolated

##### GAIN VOLTAGE

0 V to 10 V DC  
 Fully isolated

##### OFFSET VOLTAGE

+/- 10 V DC  
 Fully isolated

#### DIMENSIONS

##### OVERALL

245 mm x 184 mm x 50 mm  
 9.6" x 7.2" x 2"

##### PANEL CUTOUT

220 mm x 160 mm  
 8.7" x 6.3"

##### MAXIMUM PANEL THICKNESS

8 mm  
 0.3"

#### STORAGE TEMPERATURE RANGE

-40 °C to +85 °C

