

# DSE6110/20 MKII

## AUTO START & AUTO MAINS FAILURE CONTROL MODULES

**DSE6110 MKII**

**DSE6120 MKII**

**KEY FEATURES**

- Large back-lit text display
- Multiple display languages
- Heated display option available
- DSENet® expansion compatible
- Data logging facility
- Fully configurable via PC using USB communication
- Front panel configuration
- Efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE6120 MKII only)
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAR h)
- Generator/load current monitoring and protection
- Generator overload protection (kW)
- Breaker control via fascia buttons
- Fuel and start outputs, configurable when using CAN
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- Support for 0 to 10 V &

- 4 to 20 mA oil pressure sensors
- 6 configurable digital inputs
- Configurable staged loading outputs
- CAN, MPU and alternator speed sensing in one variant
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel pump control
- Real time clock
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- LCD and LED alarm indication
- Customisable information screens
- Configurable event log (100)
- Tier 4 ECO engine support including exhaust fluids & filters

- J1939-75 instrumentation output, configurable CAN instrumentation and alarms
- Start on low battery
- Enhanced alarm functionality
- Low load alarm

**KEY BENEFITS**

- Automatically transfers between mains (utility) and generator (DSE6120 MKII only)
- Increased input and output expansion capability via DSENet®
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored simultaneously which are clearly displayed on a large back-lit text display via multiple languages
- The module can be configured to suit a wide range of applications
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

**SPECIFICATIONS**
**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. LEDs and backlight will not be maintained during cranking.

**MAXIMUM OPERATING CURRENT**  
100 mA at 12 V, 105 mA at 24 V

**MAXIMUM STANDBY CURRENT**  
60 mA at 12 V, 55 mA at 24 V

**MAXIMUM SLEEP CURRENT**  
40 mA at 12 V, 35 mA at 24 V

**GENERATOR & MAINS (UTILITY) VOLTAGE RANGE**

15 V to 415 V AC (Ph to N)  
26 V to 719 V AC (Ph to Ph)

**FREQUENCY RANGE**  
3.5 Hz to 75 Hz

**INPUTS**

**DIGITAL INPUTS A to F**  
Negative switching

**ANALOGUE INPUT A**

Configurable as:  
Negative switching digital input  
0 V to 10 V  
4 mA to 20 mA  
0 Ω to 240 Ω

**ANALOGUE INPUTS B TO D**

Configurable as:  
Negative switching digital input  
0 Ω to 480 Ω

**OUTPUTS**
**OUTPUT A (FUEL)**

10 A short term, 5 A continuous, at supply voltage

**OUTPUT B (START)**

10 A short term, 5 A continuous, at supply voltage

**AUXILIARY OUTPUTS C, D, E & F**

2 A DC at supply voltage

**DIMENSIONS**

**OVERALL**  
216 mm x 158 mm x 43 mm  
8.5" x 6.2" x 1.5"

**PANEL CUT-OUT**

184 mm x 137 mm  
7.2" x 5.3"

**MAXIMUM PANEL THICKNESS**

8 mm  
0.3"

**STORAGE TEMPERATURE RANGE**

-40 °C to +85 °C  
-40 °F to +185 °F

**OPERATING TEMPERATURE RANGE NON HEATED DISPLAY VARIANT**

-30°C to +70°C  
-22 °F to +158 °F

**HEATED DISPLAY VARIANT**

-40 °C to +70 °C  
-40 °F to +158 °F

**OPTIONAL PARTS**

PART	PART NUMBER
IP65 Gasket	020-521

**RELATED MATERIALS**
**TITLE**

DSE6110/20 MKII Installation Instructions  
DSE6110/20 MKII Operator Manual  
DSE6110/20 MKII Configuration Suite PC Manual

**PART NO.**

053-173  
057-226  
057-224

**DEEP SEA ELECTRONICS PLC UK**

Highfield House, Hunmanby Industrial Estate, Hunmanby YO14 0PH  
**TELEPHONE** +44 (0) 1723 890099 **FACSIMILE** +44 (0) 1723 893303  
**EMAIL** sales@deepseapl.com **WEBSITE** www.deepseapl.com

**DEEP SEA ELECTRONICS INC USA**

3230 Williams Avenue, Rockford, IL 61101-2668 USA  
**TELEPHONE** +1 (815) 316 8706 **FACSIMILE** +1 (815) 316 8708  
**EMAIL** sales@deepseausa.com **WEBSITE** www.deepseausa.com

