SEULTRA®

DSE704 & DSE4120

AUTO MAINS FAILURE CONTROL MODULES

DSE704



FEATURES

monitoring

Manual start

features

outputs

counter

BENEFITS

periods

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•

Remote start

LED indicators

Configurable timers

Configurable outputs

and generator power

match user requirements

information for monitoring

maintenance and warranty

monitored simultaneously

Engine pre-heat

Automatic mains (utility) supply

Automatic shutdown when fault

Engine monitoring and protection

Single/three phase mains sensing

Transfers between mains (utility)

On-site module configuration to

Hours counter provides accurate

Multiple engine parameters are

Protected Solid State (PSS)

Front panel programming

Tamper proof engine hours

Front panel mounting

conditions are detected

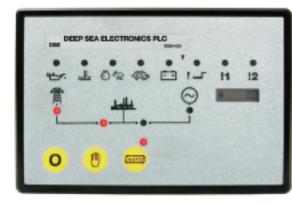
The DSE704 is an Auto Mains **Failure Control Module that offers** an excellent range of engine monitoring and protection features. The module has been designed to monitor engine temperature, low oil pressure, fail to start, charge failure, over speed and under speed.

When the module detects a fault condition it automatically shuts down the engine. The module also includes two user configurable auxiliary inputs.

The DSE4120 module includes all the features of the DSE704 plus a tamper proof engine hours counter, engine exercise mode function and the enclosure has a closed back.

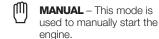
Both modules have been designed to automatically start the generator when the mains (utility) power fails. As soon as mains (utility) power is restored the modules have been designed to transfer the load back to the mains (utility) supply. The modules then instruct the engine to begin the cool down procedure and stopping sequence (user configured).

DSE4120



OPERATION

The modules are operated using the three push buttons on the front:





AUTO – This mode is used to automatically start the engine. The module will be started by the remote start signal.



STOP - This button is used to stop the engine when it is running in either manual or automatic mode.



(R)

ECIFICATION

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 170mA(12V), 280mA(24V) (DSE4120 only) 50mA (DSE704 only)

TYPICAL CURRENT 35mA(12V and 24V) (DSE 4120 only) 12mA (704 only)

ALTERNATOR INPUT RANGE 75V(L-N) to 333V AC (L-N) absolute maximum

ALTERNATOR INPUT FREQUENCY

50Hz - 60Hz at rated engine speed (minimum:75V AC L-N) (Crank disconnect from 15V L-N @ 20Hz) Overspeed +14% (+24% overshoot) Underspeed -20%

START & FUEL OUTPUTS 1.2 Amp DC at supply voltage. Switches to battery negative when active

AUXILIARY OUTPUTS 1.2 Amp DC at supply voltage. Switches to battery negative when active

DSE704 DIMENSIONS 165mm x 125mm x 29mm 6.5" x 4.9" x 1.2"

DSE704 CUT OUT 149mm X 109mm 5.9" x 4.3"

DSE4120 DIMENSIONS 171mm x 115mm x 49mm 6.7" x 4.5" x 1.9"

DSE4120 PANEL CUT OUT 154mm x 98mm 6.1" x 3.9"

CHARGE FAIL 8 Volt Charge Fail at 12 Volts, 16 Volt Charge Fail at 24 Volts

ENVIRONMENTAL TESTING STANDARDS

ELECTRO MAGNETIC CAPABILITY

BS EN 61000-6-2 EMC Generic Emission Standard for the Industrial Environment BS EN 61000-6-4 EMC Generic Emission Standard for the Industrial Environment

TEMPERATURE BS EN 60068-2-2 Test Ab to +70°C 60067-2-2 Hot Test Ab to -30°C 60068-2-1 Cold

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 2011 part 2.1 60068-2-30 Test Cb Ob Cyclic 93% RH @ 40°C for 48 hours

SHOCK

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



MANUAL - This mode is



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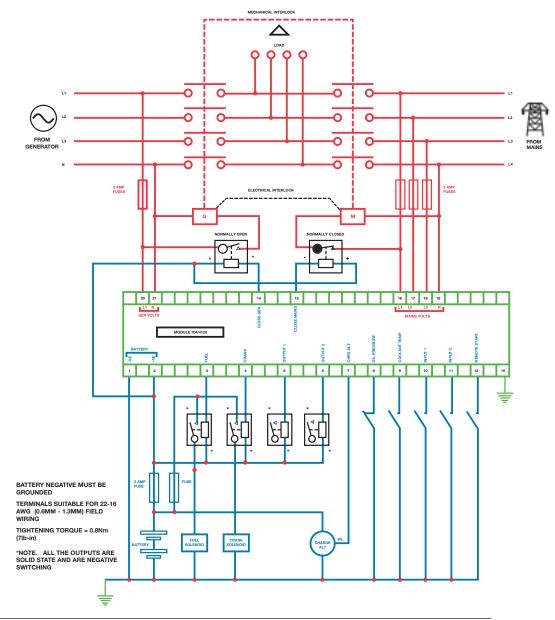
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CONFIGURATION

configuration details.

The modules can be configured to match user's individual parameter settings. Configuration mode is accessed via the switch at the rear of the module. Once in configuration mode the AUTO-LED flashes rapidly.

NORMAL CONFIGURATION

RELATED MATERIALS TITLE

DSE704 Installation Instructions DSE704 Operators Manual DSE4120 Installation Instructions DSE4120 Operators Manual

PART NO'S

053-036 057-043 053-021 057-023





NAME OF ADDRESS OF ADDRES



This data sheet is printed on 9lives 55 Silk, which is produced with 55% recycled fibre from both pre and post-consumer sources, together with 45% virgin ECF fibre.

Please refer to the installation instructions for the parameter settings and

DEEP SEA ELECTRONICS PLC maintains a policy of continuous development and reserves the right to change the details shown on this data sheet without prior notice. The contents are intended for guidance only.

