



DEEP SEA ELECTRONICS

053-262
ISSUE 1

**DSEG0123 MSC Load Share Interface
Installation Instructions**

DESCRIPTION

The G0123 Load Share Lines Interface is designed to allow the Deep Sea load sharing modules to interface with analogue load share lines on existing systems without the need to replace the existing controls.

The G0123 monitors the load share lines and converts this into digital information. This data is then used by the onboard microprocessor to allow the G0123 to drive its own load share lines and to communicate on the M.S.C. link with the host controller.

When communication to the host controller is established successfully the CAN1 LED will light, if communication can't be established it will extinguish.



SPECIFICATION

DC SUPPLY:
8V DC to 35V DC

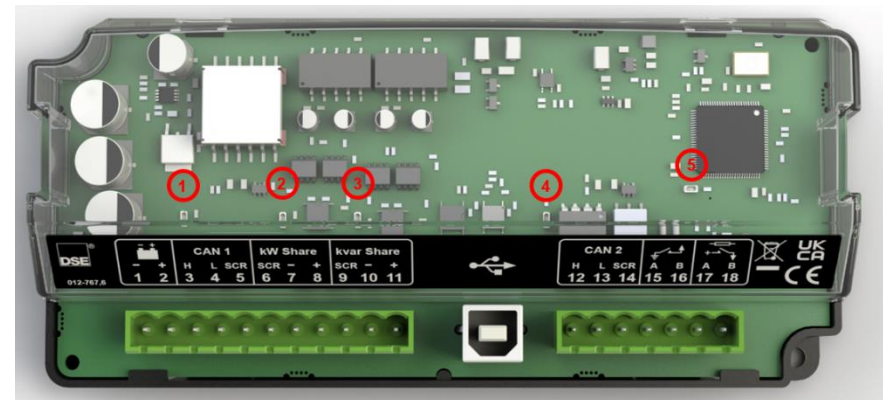
**MAX. CURRENT
(operating and standby):**
Max Current 12V = 180mA 24V = 100mA

OPERATING TEMPERATURE RANGE:
-40°C to +80°C

**MEASUREMENT COMMON MODE RANGE (FROM TERMINALS 6
AND 9 TO TERMINAL 1)**
+/-20V

INDICATIONS

Position	Indication	Colour	Description
1	CAN 1	Green	Off – Not communicating with a Gen on the link Steady – Communicating correctly with a Gen on the link
2	kW Share	Green	Off – Disconnected from power share lines. Steady – Connected to power share lines.
3	kvar Share	Green	Off – Disconnected from var share lines. Steady – Connected to var share lines.
4	CAN 2	Green	Not used, always off.
5	Fault	Red	Off – No fault Rapid flashing – Internal fault



CONFIGURATION

Load Share Settings

The *Load Share Settings* section allows the user to edit options related to the module itself and is subdivided into smaller sections.

KW Share

The screenshot shows the 'kW Share' configuration window. It includes a 'Manufacturer' dropdown menu set to 'User defined', a 'Voltage for 100%' slider set to 10.0 V, and two dropdown menus for 'Parallel Resistance' and 'Series Resistance', both set to 'Not Used'.

Kvar Share

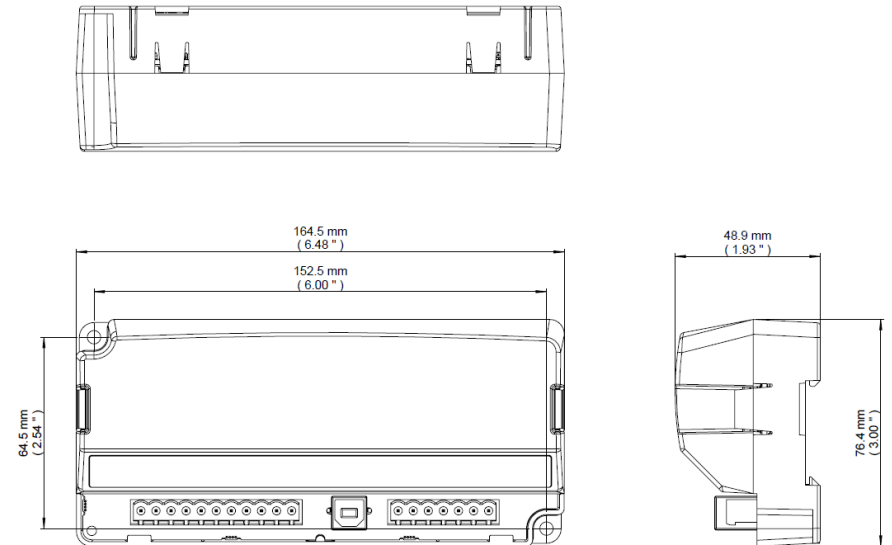
The screenshot shows the 'kvar Share' configuration window. It features an 'Enabled' checkbox which is currently checked. Below it are the same settings as in the kW Share window: 'Manufacturer' set to 'User defined', 'Voltage for 100%' set to 10.0 V, and 'Parallel Resistance' and 'Series Resistance' both set to 'Not Used'.

- Unticking the 'Enabled' checkbox forces the other items in the group to be disabled.
- Selecting a Manufacturer fills in the other parameters as appropriate.
- Selecting 'Cummins' also locks the other three settings in this group.
- Changing any of the settings forces manufacturer back to 'User Defined'

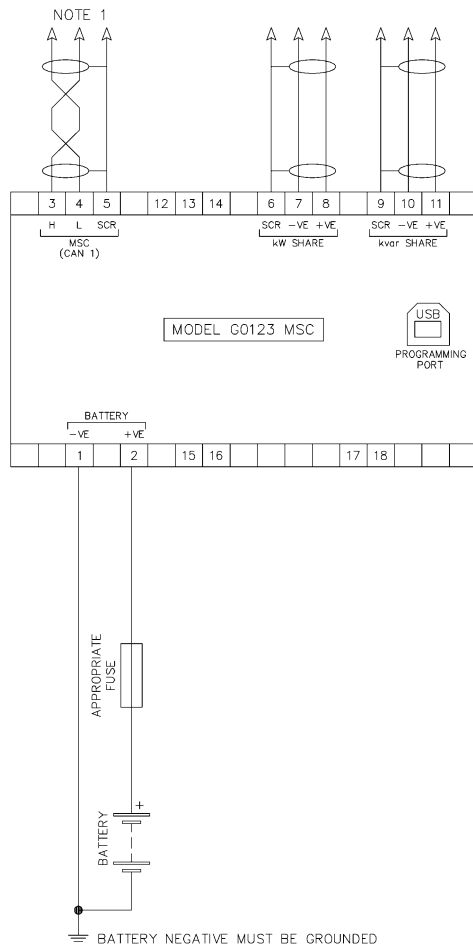
NOTE: For further details of the Load Share Interface configuration, refer to DSE Publication: 057-349 *DSEG0123 Configuration Suite PC Software Manual*.

DIMENSIONS

164.5mm x 76.4mm x 48.9mm
(6.87" x 3.00" x 1.93")



TYPICAL WIRING



BATTERY NEGATIVE MUST BE GROUNDED

NOTE 1. IF THE MODULE IS FIRST OR LAST UNIT ON THE LINK, IT MUST BE FITTED WITH A 120 OHM TERMINATION RESISTOR ACROSS TERMINALS H AND L.

NOTE: kw share and kvar share lines must not be left floating, the voltage between terminals 6 and 9 and terminal 1 must remain within the specified common mode range, refer to DSE Publication: *057_348 DSEG0123 MSC Load Share Interface Operator Manual*.

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