



Product Change Notification:

DSE9470 MKII 24 Volt 10 Amp Intelligent Battery Charger

Part No: 9470-01



DSE9470 MKII

New Features

Release Date: 26.09.19	
Added Feature	Feature Explanation
Increased Output Voltage Range.	The maximum output charger voltage has been increased to 31 V. This increases charger performance when charging NiCad batteries or conducting 24 hour battery charging tests.
Improved Soft Start.	The software soft start feature has been set to a minimum voltage of 10 V for improved soft start functionality, to cope with higher load inrush currents.
Battery Health Check.	A cyclic battery health check feature has been added. In the event of a battery becoming unhealthy an alarm will activate. Various configurable timers, options and settings can be accessed using DSE Configuration Suite.
Deep Sleep Mode.	A user configurable deep sleep mode has been added that becomes active when the charger is connected to a battery and no mains (utility) supply is available. This is to minimise the current consumption from the battery down to 16 mA when the mains (utility) is unavailable for long periods of time.
Battery Voltage Sensing (Down to 1 Volt).	A new voltage measurement circuit has been added to enable the charger to measure the voltage on the battery. This is used for charge termination and automatic battery voltage detection.
PSU Mode.	A user configurable PSU mode has been added to allow the charger to operate as a conventional constant voltage power supply. This mode is for use when the module is being used purely as a power supply. The output voltage and current limit are configurable between maximum and minimum, using a slider in DSE Configuration Suite. When this is enabled, all other features that may alter the output voltage are disabled.
Automatic Voltage Detection (Down to 1 Volt).	The automatic voltage detection operation has been updated so that if no battery is connected, the charger does not start-up. Once a battery is connected, the charger will power up into either 12 V or 24 V mode.
SCADA Digital Input Status.	Provides active/non active status information on the digital inputs through SCADA.
Increased Output Current Range.	The minimum configurable current limit has been reduced to 10%. This allows 10 A chargers to be configured down to 1 A.
Max Current Mode.	The charger can switch to maximum output current manually via a digital input or automatically. The automatic detection monitors the output current and if the charger sees a sudden increase in current, the current limit will be set to maximum for the configured period. The digital input timer switch will switch the current limit to maximum for the configured period when the user switches the digital input. When in manual mode the digital input will switch the current limit to maximum, when the digital input is triggered.
New Gencomm Registers in Configurable Gencomm.	Several new GENCOMM registers have been added, with the information being displayed in SCADA. These are: digital input status, digital input selection, charge state time remaining, time until next battery test, time until next self test.

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New Features

Release Date: 05.03.19	
Added Feature	Feature Explanation
Password Protection.	Password protection has been added to prevent additional users changing pre-configured charging profiles.
Configurable Temperature Shutdown.	A slider has been added to the PC software to make the battery over temperature alarm configurable.
Configurable Mains Relay Functionality.	A disable feature slider has been added to the PC software to stop relays changing state when a mains (utility) failure occurs.
Lead Crystal Profile.	Lead crystal charging profiles are now supported.