

DSEBC2415i

24 Volt, 15 Amp Battery Charger



ADVANCED FEATURES

- Intelligent three and four stage charging profiles
- Adjustable current limit
- Option to use as a battery charger, power supply or both
- Automatic or manual boost and storage charge functions to help maintain battery condition
- Digital microprocessor technology
- Temperature compensation for battery charging
- Low output ripple and superb line regulation
- Three LED indicators
- Switched mode design
- Fully customisable battery charging curves
- Battery health check
- Battery voltage sensing
- Deep sleep mode
- PSU only mode
- Automatic voltage detection
- Wide output current range

Full Protection

- AC input under / over voltage
- Battery charger output over voltage
- Battery charger output over current
- Battery under voltage alarm
- Automatic battery detection
- Automatic battery charger self test
- Output short circuit and inversion polarity with auto recovery
- Max current mode
- SCADA digital input status information
- Automatic power de-rating at high ambient temperatures.
- Optional battery temperature compensation using PT1000 temperature sensor with over temperature protection

Automatic Boost Mode

Boosts and equalises cell charge, improving battery performance

Power Save Mode

Once the battery is fully charged, the chargers switch to eco-power

Communication

- Can be integrated into external systems through MODBUS RTU using RS485
- Fully configurable via DSE Configuration Suite PC Software
- DSE2541 remote display option

KEY BENEFITS

- Fully flexible to maximise the life of the battery
- Suitable for a wide range of battery types
- Minimum 86% operating efficiency
- No external intervention for boost mode
- Multiple chargers can be linked together to provide larger current outputs
- Can be permanently connected to a battery and AC supply. No need to disconnect through high load conditions such as cranking or when the engine is running.

SPECIFICATIONS

AC SUPPLY VOLTAGE RANGE 90 V to 305 V (L to N)

FREQUENCY RANGE

48 Hz to 64 Hz (L to N)

DC OUTPUT 15 A DC at 24 V DC

RIPPLE AND NOISE

EFFICIENCY

REGULATION LINE

<0.5%

LOAD

TEMPERATURE SENSOR INPUT PT1000

PROTECTIONS

Short circuit DC over voltage DC over current Reverse polarity Over temperature AC under & over voltage

CHARGE FAILURE RELAY 3 A at 30 V DC volt free relay

DIMENSIONS OVERALL

80 mm x 205 mm x 135 mm 3.1" x 8.1" x 5.3"

WEIGHT

OPERATING TEMPERATURE RANGE -30 °C to +70 °C

-22 °F to +158 °F

STORAGE TEMPERATURE RANGE

-30 °C to +70 °C -22 °F to +158 °F

RELATED MATERIALS

TITLE

DSEBC2415i Series Configuration Suite PC Software Manual DSE Configuration Suite Installation & Operators Manual DSEBC2415i Installation Instructions DSEBC2415i Series Operators Manual

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DSEBC2415i

24 Volt, 15 Amp Battery Charger

The DSEBC2415i is an intelligent 24 volt, 15 amp switch-mode battery charger that can be programmed for different charging curves, making the product suitable for multiple battery types.

The charger is programmed using the DSE Configuration Suite software, can be chassis or DIN rail mounted and has three integrated LEDs to indicate current charging status and fault conditions.

The charger has no moving parts, delivering additional durability and reliability and continues to operate when the engine is running.

Multiple chargers can be linked to provide a larger current output should this be required.

ENVIRONMENTAL TESTING STANDARDS

ELECTRO-MAGNETIC COMPATIBILITY

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

OPERATING TEMPERATURE RANGE

BS EN 60068-2-1 Ab/Ae Cold Test -30 °C BS EN 60068-2-2 Bb/Be Dry Heat +80 °C
* Refer to de-rating curve in the DSE9000 Operator Manual

VIRRATION

BS EN 60068-2-6 Ten sweeps in each of three major axes 5 Hz to 8 Hz @ +/-7.5 mm, 8 Hz to 500 Hz @ 2 gn

BS EN 60068-2-30 Db Damp Heat Cyclic 20/55 oC @ 95% RH 48 Hours BS EN 60068-2-78 Cab Damp Heat Static 40 oC @ 93% RH 48 Hours

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

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF BATTERY **CHARGER APPLICATIONS**



