

# DSEBC1205 / DSEBC2405

12 V 5 AMP BATTERY CHARGER / 24 V 5 AMP BATTERY CHARGER



The **DSEBC1205** and **DSEBC2405** battery chargers are designed to be permanently connected to a battery, to ensure it maintains a full charge.

The chargers include LED indicators on the front that show when there is no battery connected and also if a fault condition is present.

The chargers continue to operate during cranking and running and have been designed to accept multiple AC voltage connections.

The robust design makes the chargers ideally suited to a wide range of markets including heavy and light industrial environments.

The chargers can be mounted vertically or horizontally for complete flexibility across multiple application types.

## RELATED MATERIALS

TITLE	PART NO.
DSEBC1205 / DSEBC2405 Installation Instructions	053-267
DSEBC1205 / DSEBC2405 Operator Manual	057-355

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## SPECIFICATIONS

**AC SUPPLY**  
**FREQUENCY RANGE**  
45 Hz to 65 Hz

**VOLTAGE RANGE**  
90 V to 305 V (L-N)

**DC OUTPUT**  
**DSEBC1205 OUTPUT**  
5 A DC 12 V DC

**DSEBC2405 OUTPUT**  
5 A DC 24 V DC

**RIPPLE AND NOISE**  
<3% Vo

**EFFICIENCY**  
>80%

**REGULATION**  
**LINE**  
<1%

**LOAD**  
<4% Vo

**PROTECTIONS**  
Short Circuit  
Reverse Polarity

**DIMENSIONS**  
**Horizontal (W x H x D)**  
129.6 mm x 138.5mm x 50 mm  
5.1" x 5.45" x 2.0"

**Vertical DIN Mounted (W x H x D)**  
50 mm x 129.6 mm x 138.5mm  
2.0" x 5.1" x 5.45"

**Vertical Clip Mounted (W x H x D)**  
50 mm x 140.8 mm x 138.5mm  
2.0" x 5.55" x 5.45"

**WEIGHT**  
0.4 kg

**OPERATING TEMPERATURE RANGE**  
-25 °C to +80 °C (with de-rating)  
-13 °F to +176 °F

**STORAGE TEMPERATURE RANGE**  
-40 °C to +85 °C  
-40 °F to +185 °F

# DSEBC1205 / DSEBC2405

12 V 5 AMP BATTERY CHARGER / 24 V 5 AMP BATTERY CHARGER

## FEATURES

- Wide AC input voltage
- Manual boost adjustment
- Constant current
- Constant voltage
- Automatic float mode return
- Low output ripple to suit all battery types
- Reverse polarity protection, short circuit protection and current limiting
- Auto recovery on fault condition removal
- Battery charger thermal de-rate facility
- Cell charge boost & equalizing
- Chargers switch to eco power mode when batteries are fully charged
- Multiple modules can be linked together to increase current output
- Battery voltage measurement

## BENEFITS

- Small and compact size
- Suitable for a wide range of battery types
- No moving parts for longer battery charger life
- Switched mode design
- Charge fail output
- Minimum 80% operating efficiency
- Flexible mounting options
- Position of serial label allows for simple charger identification when fitted inside a panel.
- Can be used as a power supply.

## 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

### TEMPERATURE

BS EN 60068-2-1  
Ab/Ae Cold Test -30 °C  
BS EN 60068-2-2  
Bb/Be Dry Heat +55 °C

### VIBRATION

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

### HUMIDITY

BS EN 60068-2-30  
Db Damp Heat Cyclic 20/55 °C at 95% RH 48 Hours  
BS EN 60068-2-78  
Cab Damp Heat Static 40 °C at 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 MULTIPLE BATTERY CHARGER APPLICATIONS

