

Securing the functioning of mobile equipment in dis-mounted operations

## Battery charger

### Battery charger – mobile and ruggedized charger

#### Robust charger for insertable batteries

If soldiers are deployed in remote areas for long periods of time, the equipment batteries they carry will have to be recharged. The battery charger is specially designed for these requirements.

#### Optimum state of charge thanks to intelligent electronics

As a charging station fed by the vehicle's power supply, the battery charger can charge up to four different types of batteries simultaneously. Intelligent charging electronics ensure the optimal charge level of the battery blocks at all times and prevent overcharging.

#### Electronics detects battery type

The charger uses the charging cradle to identify the necessary parameters so that the charging process starts automatically when an insertable battery is inserted into the charging cup holder. The intelligent charging electronics monitor both the battery and the vehicle's prime power voltage.

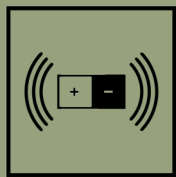
#### Perfectly adapted to the conditions in the vehicle

It is not necessary to keep the vehicle's engine running for the charging process. Thanks to its enclosed design, the box-shaped charging cup holder protects both the inserted batteries and the mounted soldiers during the ride.

- Charges four different battery types
- Monitors battery status and vehicle prime power voltage
- Open to new technologies
- Automatic battery recognition and charging
- Prevents charging outside of battery specifications
- Deep discharge protection for vehicle battery

# KNDS

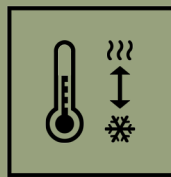
## Key features



**EMC acc.  
MIL-STD-461**



**Environment acc.  
MIL-STD-810**



**Extended  
temperature range**



**On-board voltage net-  
work acc VG96916**

## Technical data

### Hardware variants

- Battery charger with individual charging cup holder
- Battery charger with individual charging cradle
- Battery charger in customer-specific design
- Battery charger with customer-specific functions

### Electrical properties

- Output during charging maximum 195 W
- Input voltage 18 V to 32 V
- Input current in charging mode maximum 8.5 A
- Separate discharge currents and charging currents
- All connections independent
- Prevents charging outside of battery specifications

### Insertable batteries supported

- Nyxus lithium-ion battery
- PRC148 lithium-ion battery
- PRC152A lithium-ion battery
- BB2590 lithium-ion battery
- Other battery technologies and battery types upon request

### Battery

- Automatic battery recognition and charging
- Saves charging and discharging parameters
- Battery capacity determination

### Environment

- Humidity, altitude, vibration, salt fog, shock according to MIL-STD-810
- Extended temperature range  
Operation: -32°C to +55°C  
Storage: -46°C to +71°C
- EMC according to MIL-STD-461 & VG 95373
- IP 65 protection
- Vehicle electrical system according to VG 96916
- CE conformity

### Special features

- Charge within the vehicle's system voltage range
- Determine the valid temperature range for charging
- Charging when the vehicle is stationary
- Deep discharge protection for vehicle battery
- "Smart battery" function
- Partial charge of 30 percent for air transport