



Unitech Energy

Powering Critical Equipment

## **Defense line Products**



**Established: 2005**

**Main Markets: Defense/Defense OEMs, Oil and gas Industry OEMs  
Norway, USA, Canada, UK, Germany**

**Projects from Submarines to Fighters.  
Experience from over 100 OEM projects.**

**Launching Defense Line Products in 2025 for land operations.**

# Indoor chargers/analyzers

# SmartEx cm35

Advanced Battery Charger

## FEATURES

- Charging all battery chemistries
- Customized charging/discharging algorithms
- Customized battery adaptors
- Charging voltage range: 3.6V - 29.0V
- Maximum charging current: 5A
- Maximum discharge current: 2.5A / 5A with fans
- Three independent working charging stations
- Increases battery cycle life
- Selectable charging/discharging programmes
- Capacity check
- Maintainor mode for safe storage of batteries
- LCD display for status indication, capacity readings and settings
- Robust, anodized aluminium enclosure and adapters
- Real-time clock
- Computer interface, RS-232 for SmartMonitor
- 24VDC power input from vehicle or external power supply
- Manufactured in the EU



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# SmartEx cm65

## Advanced Battery Charger

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- Customized battery adaptors
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# Field charger

# UniCharger C92

The UniCharger C92 is an universal military battery charger capable of charging virtually all batteries for portable equipment from a wide range of DC sources.

## FEATURES

### Power Input:

UniCharger operating voltage range:

10VDC - 36VDC

Input current: 10 Amps max.

Nominal voltage for DC power source: 28VDC

DC input connector type: 8D0-13Z26PN

### Size/Weight:

Width: 100mm

Height: 43mm

Depth: 125mm + connectors

Weight: Approx. 0.6kg

### LED indicator:

The UniCharger is equipped with a multi-color LED indicator located at the front.

The indicator has the following functionality:

- Solid violet LED - Power Supply Mode
- Solid yellow LED - Charging
- Solid green LED - Fully Charged
- Flashing red LED - Error
- Solid blue LED - Battery not connected or wrong polarity

### System Management Bus (SMBus):

The UniCharger charges both Smart batteries and non-Smart batteries.

SMBus is available on the output connector.

### Standards:

- MIL-STD-1275E Interface Standard: Surges and spikes
- MIL-STD-883C Shock/vibration, temperature
- MIL-STD-883C RE101, RE102
- IEC standard 60529: Ingress protection: IP class 67

Specifications are subject to change without notice.

### Charger Output:

Output charging voltage: 3.6V - 36.0V

Maximum output power: 200W

Maximum charging current: 10A

DC output connector type: 8D0-13Z26SN



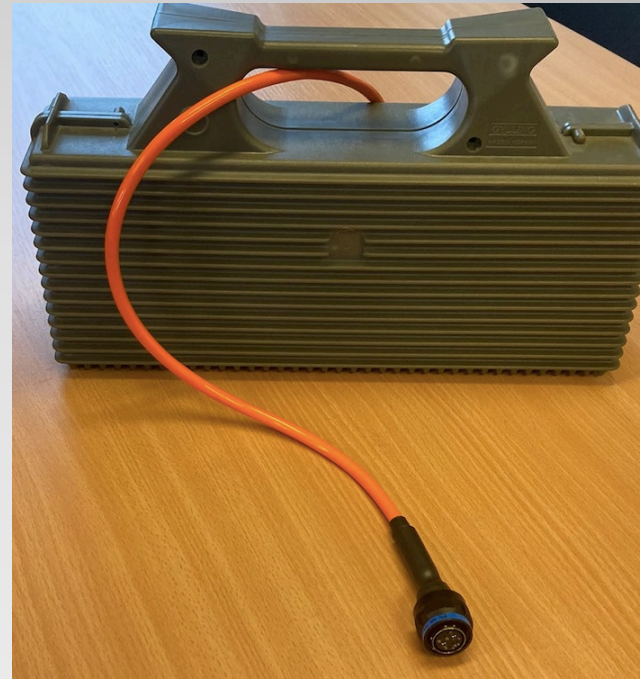
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C92 UniCharger connected to Solar Panel

C92 UniCharger Power bank





# Field charger, PowerHub

# PowerHub D26

The PowerHub D26 is an universal military battery charger capable of charging virtually all batteries for portable equipment from a wide range of DC sources. The product consists of 5 individual outputs.

## FEATURES

### Power Input:

UniCharger operating voltage range:  
10VDC - 32VDC  
Input current: 40 Amps max.  
Nominal voltage for DC power source: 28VDC  
DC input connector type:  
Amphenol 62GB-56TG14-04SN

### Size/Weight:

Width: 220mm (19" /2)  
Height: 89mm (2U)  
Depth: 150mm + connectors  
Weight: Approx. 4.0kg

### LED indicator:

The UniCharger is equipped with a multi-color LED indicator located at the front. The indicator has the following functionality:

- Solid violet LED - Power Supply Mode
- Flashing yellow/green LED - Charging
- Solid green LED - Fully Charged
- Flashing red LED - Error
- Solid blue LED - Battery not connected or wrong polarity.

### System Management Bus (SMBus):

The PowerHub charges both Smart batteries and non-Smart batteries. SMBus is available on the output connector.

### Standards:

- MIL-STD-883C: Shock/vibration, temperature
- MIL-STD-461G: RE101, RE102
- IEC standard 60529: Ingress protection: IP class 67

Specifications are subject to change without notice

### Charger Output (each channel):

Output charging voltage: 3.6V - 36.0V  
Maximum output power: 200W  
Maximum charging current: 10A  
DC output connector type: BD0-13Z26SN



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# DC Power Distribution Unit Micro Grid

# DC Micro Grid

Part no.: D07

The DC Micro Grid consist of five outputs with electronic circuit breakers. The individual outputs can be switched on and off with the breaker buttons in the front. Breaking characteristics and current ratings can be adopted to different loads by Graphical User Interface.

## Specifications:

### **Distribution unit:**

The DC Distribution Unit consists of five separate outputs protected by electronic fuses.

### **Transient protector:**

The DC Micro Grid includes different protection circuitries that protects connected equipment from electrical disturbances like: Spikes, ESD, etc.

### **Remote Control Unit:**

Remote Control Unit for control and alarm functions can be connected to the DC Micro Grid. Optional audio alarm for critical battery voltage.

### **Critical Battery Voltage Disconnect:**

Equipment connected to the DC Micro Grid can be automatically switched off when vehicle battery reaches critical low voltage. Voltage limit can be set in Graphical User Interface.

### **Reverse Polarity:**

The DC Micro Grid is protected against reverse polarity.

### **DC Distribution:**

The DC Distribution consists of one output rated to 50A and four outputs rated to max. 20A loads each (50A total load current on all outputs).

### **Electronic Breakers:**

All outputs are provided with electronic fuses. The individual outputs can be switched on and off with the breaker buttons in the front. Breaking characteristics and current ratings can be adapted to different loads by Graphical User Interface.

### **Transient protection:**

The Micro Grid protects outputs against following disturbances exposed to the input:

Transients - Surges - Ripple - ESD

### **Indicators:**

Colored LEDs for diagnostics

### **Environmental specifications:**

Operating temperature range: Mil. Std. 810F: -40°C to +60°C

Storage temperature range: Mil. Std. 810F: -40°C to +70°C

Humidity: Mil. Std. 810F: Method 507.4

Vibration and Bump: Mil. Std. 810F Method 514.5 Proc. I cat. 20.

Vibration and Drop: Mil. Std. 810F Method 516.5 procedure IV.

Method 514.5 cat. 20.

Corrosion: Def. Stan 00-35, test CN2.

Ingress protection class: IP55

EMC: Mil. Std. 461F: RE102-4 Army Ground; CE102 (Basic), RS103

Surge: EN 61000-4-5, level 4

Transients: EN61000-4-4, level 4

Surge: Mil. Std. 1275E

Spikes: Mil. Std. 1275E

Ripple: Mil. Std. 1275E

ESD: EN 61000-4-2 level 3

### **Dimensions:**

Width: 19 inches

Height: 2U

Depth: 10 cm

### **Weight:**

Approx. 6 kg

### **Accessories:**

- AC cables

- DC cables

- Remote Control Unit

- Mounting brackets for floor and wall mounting



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