

Universal Supervisor Charger (USC)



Specifications

Models	USC 1	USC 2	USC 6
Application	- Advanced Diagnostic Charger Systems 1, 2, 6 Bay configurations - Connectivity and ease of use suitable for Fleet management - Support multi-chemistry batteries		
Battery Chemistries	Lithium Based: Li-ion / Li-Polymer, Li-ion Phosphate Nickle Based: NiCd, NiMH		
Battery Capacity Range	700 mAh to 22,000mAh		
Battery Voltage Range	3.6V – 14.4V Nominal		
Operating Programs	- Charge Mode - AirShip Mode - Storage Mode - Calibration Mode (for Smart Batteries) - Cycle Mode (for Conventional Batteries) - SoH Indication for smart batteries		
State of Charge (SoC) functions (Factory Settings)	- Air Ship: 30% SoC - Storage: 50% SoC		
State of Health (SoH)	Reading only of SMB data and SoH Information		
Charge Profile	Li-ion/Li-poly/LiFePO: Constant Current Constant Voltage, Temperature Limited NiCd/NiMH: Constant Current, Reverse Pulse, Temperature Limited		
Charge Time (Typical)	Radio batteries: 2-3 hours 12-16 hours with conditioning (sequence is CHG-DCH-CHG) Laptop batteries: 7.5 hours 24-36 hours with conditioning		
Dimensions	L: 9.5"; 250mm W: 4.0"; 110mm H: 2.5"; 70mm	L: 9.5"; 250mm W: 6.5"; 180mm H: 2.5"; 70mm	L: 9.5"; 250mm W: 18"; 480mm H: 3.7"; 95mm
Weight	300g (0.6 lbs.)	600g (1.25 lbs.)	3300g (7.0 lbs.)

Mounting Configuration

- Tabletop with integrated anti-slide grips.
- Modular mounting plate for various mounting applications

Front Panel - UI Label with Led Indicators

- Power On/Idle (Green)
- Charging (White, Flashing)
- Calibrating, or Custom SoC Mode (White, Flashing)
- Battery Ready, Battery Fully Charge, or Custom SoC Mode Complete (Green, Solid)
- Fault (Red, Solid)
- Charging on hold due to temp range (Red, Flashing)

Charging Ports

Barrel connector Barrel connector DC Power Input

Firmware Update port

USB-C (for firmware update)

Other Ports

Not available on 1, 2 Bay Device Ethernet 10/100MB

Power Supply

External Power Supply: 100-240VAC, 50/60Hz External Power Supply: 100-240VAC, 50/60Hz **Internal Power Supply:** 100-240VAC, 50/60Hz

AC Input Protection MIL-STD-704F Voltage/Frequency Transient

DC Power Input

Input Range 11-33 VDC
DC Input Protection MIL-STD-1275D Surge and Spike

Power Management

Current automatically scaled down if power limits are exceeded

Max Charge/Discharge Current

Charge – 4-5A
Discharge – 2A

Max Charge Power: Low Power SKU (25W per Bay)

Total of 25W Total of 50W Total of 150W

High Power SKU (50W per Bay)

Total of 50W Total of 100W Total of 300W

Max Discharge Power (8W Per Bay)

Total of 8W Total of 16W Total of 48W

Accuracy

+/-1% for charging voltage
+/-5% for max charging current

Connectivity Options

USB-C to PC running
CadexLink in
1, 2 Bay Devices

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Wi-Fi 802.11 b/g/n (up to
150Mbps at 2.4GHz)

- BLE V4.2 (FCC, ISED, CE mark and Bluetooth QDID)
- CadexLink (Operating Application)

Device Operating Environment

Temperature: 0°C to +40°C (32 °F to 104 °F)
Humidity: 10% to 80%

Device Storage Environment

Short-Term (up to 30 days)
Temperature: -40°C to +70°C (-40 °F to 158 °F)
Humidity: Non-condensing

Long-Term (1-3 months +)
Temperature: -40°C to +70°C (-40 °F to 158 °F)
Humidity: Non-condensing

Warranty

Cadex warrants two (2) years against defective materials and workmanship from original purchase date.

Do you like this solution?
Please contact Heynen for distribution in BENELUX.



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