



For over **45** years, Cadex has been at the leading edge of battery testing technology. Serving customers in over 100 countries globally. Our world-class team and innovative technology products are designed to optimize all phases of battery life-cycle management.

The Universal Supervisor Charger delivers battery diagnostics enabling full battery usage with call to replace before failure.

	USC1	USC2	USC6
Output / Charge Power per Bay	25W/50W	25W/50W	25W/50W
Hybrid Function	Services regular and smart batteries interchangeably Note: Only smart batteries provide diagnostic functions		
Battery Voltage Range	3.6V – 14.4V Nominal		
Battery Adapters	Embedded code selects charge algorithm. Adapters can be field-replaced		
Programs	AirShip - sets SoC on smart batteries to regulated 30% or less Storage - sets SoC on smart batteries for long-term storage Calibrate - resets smart battery's fuel gauge Charge - fully charges the battery		
Discharge Rate	8 Watts per bay		
DC Power Input	Input Range 10-36 VDC		
Boost function	Automatically applies Boost if over-discharged.		
Power Management	Current automatically scaled down if temperature or power limits are exceeded		
Battery Capacity Range	700mAh to 22,000mAh		
Power Supply Ports	Barrel connector DC Power Input	Barrel connector DC Power Input	Male C14 Type AC Power Input
Firmware Update	USB-C	USB-C	USB-C, Ethernet, OTA
Power Supply	External Power Supply: 100-240VAC, 50/60Hz	External Power Supply: 100-240VAC, 50/60Hz	Internal Power Supply: 100-240VAC, 50/60Hz
Dimensions (L x W x H)	250 x 110 x 70 mm (9.5 x 4.0 x 2.5 Inch)	250 x 180 x 70 mm (9.5 x 6.5 x 2.5 Inch)	250 x 480 x 95 mm (9.5 x 18 x 3.7 Inch)
Weight	300g (0.6 lbs)	600g (1.25 lbs)	3300g (7.01lbs)
Environmental	Operating 0°C to +40°C (32°F to 104°F) Storage -40°C to +70°C (-40°F to 158°F)		
Safety Certification	UL, CE (62368-1:2019)		
Warranty	2 Years from Date of Purchase		



The **Universal Supervisor charger (USC)** works in standalone mode; connects to a PC, and store historic battery data in the cloud.

The USC utilizes each battery fully and call for replacement before failure. Available in 1, 2 and 6 bays, the USC charges lithium and nickel-based batteries at 25W and 50W. The open platform services different batteries on each bay.

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

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Industry leaders
in battery testing technology



45+ years
serving over 100 countries globally



ENHANCED BATTERY SAFETY

- Charging profiles optimized for battery chemistries
- NiCd, NiMH
- Li-ion/Li-Poly, Li-ion phosphate



EASE OF USE AND INTEGRATION

- Streamlined to integrate into operational workflows
- Reduces interruptions caused from battery capacity problems



SPECIALIZED CHARGING PROFILES

- AirShip - 30% SoC (Configurable via CadexLink)
- Storage - 50% SoC (Configurable via CadexLink)
- Calibration / Cycle mode

FEATURES



Hybrid Function

Services regular and smart batteries side-by-side



Open Platform

Battery adapters avoid obsolescence



Calibration

In-system calibration harmonizes with Target Selector



Redundancy

Completes charge if communication fails



Programs

AirShip brings Li-ion to 30% SoC; Storage prolongs battery life



AC/DC Input

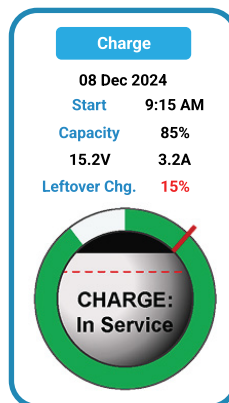
Operates in 12V and 24V DC; dual supply with buck boost to operate in vehicles



CADEXLINK

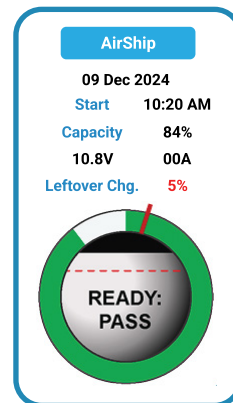
Battery Thumbnails

The CadexLink local application presents battery state-of-function (SoF) by thumbnails with Fishbowl icons as illustrated in the figure.



UPLOAD

STOP



UPLOAD

STOP

CADEXCLOUD

CadexCloud securely stores test data, enabling efficient battery performance tracking, firmware updates, and improved operational management.

01

Battery Inventory

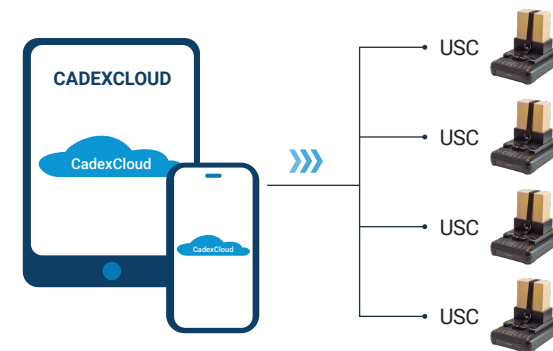
View battery data -- charging, calibration, inventory, and retired batteries.

Smart Battery #	Unit	Program	Capacity (FCC)	SoC	State	Cycle Count
B1234567	USC2	Charge	85%	95%	PASS	354
B5645648	USC2	Charge	93%	85%	PASS	185
B4564564	USC2	AirShip	82%	90%	PASS	185
B8792543	USC6	Calibration	78%	64%	RECALIBRATE	600
B6875644	USC2	Charge	85%	55%	PASS	345
B6546548	USC6	AirShip	90%	68%	PASS	285
B87925521	USC2	Calibration	68%	85%	RECALIBRATE	650

02

Fleet Manager

Monitor and control a fleet of Universal Supervisor Chargers from a central location with the CadexCloud.



03

Notifications

Customize and automate notifications for organization users. Improve the efficiency of fleet management and battery reliability.

