UNIVERSAL SUPERVISOR CHARGER

CADEX

SUPPORTS UP TO 1, 2, OR 6 DIFFERENT BATTERIES

- **Safety and reliability** for mission critical applications
- **Fast charging** for increased battery uptime
- **Optimize decision-making** with cloud connectivity and analytics

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

HOW THE TECHNOLOGY WORKS

The USC stands in a class of its own serving as cost-effective charger in standalone mode with optional connection to a computing device providing risk management in batteries.

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
- **Cloud Analytics:** Shows battery performance on PC; stores data in CadexCloud

Industry leaders in battery testing technology

40+ years serving over 100 countries globally

APPLICATIONS

DEFENCE
Deploy only performing batteries by doing regular analysis and conditioning

PUBLIC SAFFETY
Increase availability of critical equipment and safety of first responders

LOGISTICS
Improve throughput and save precious seconds on the line

HEALTHCARE
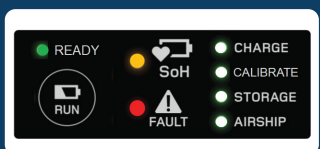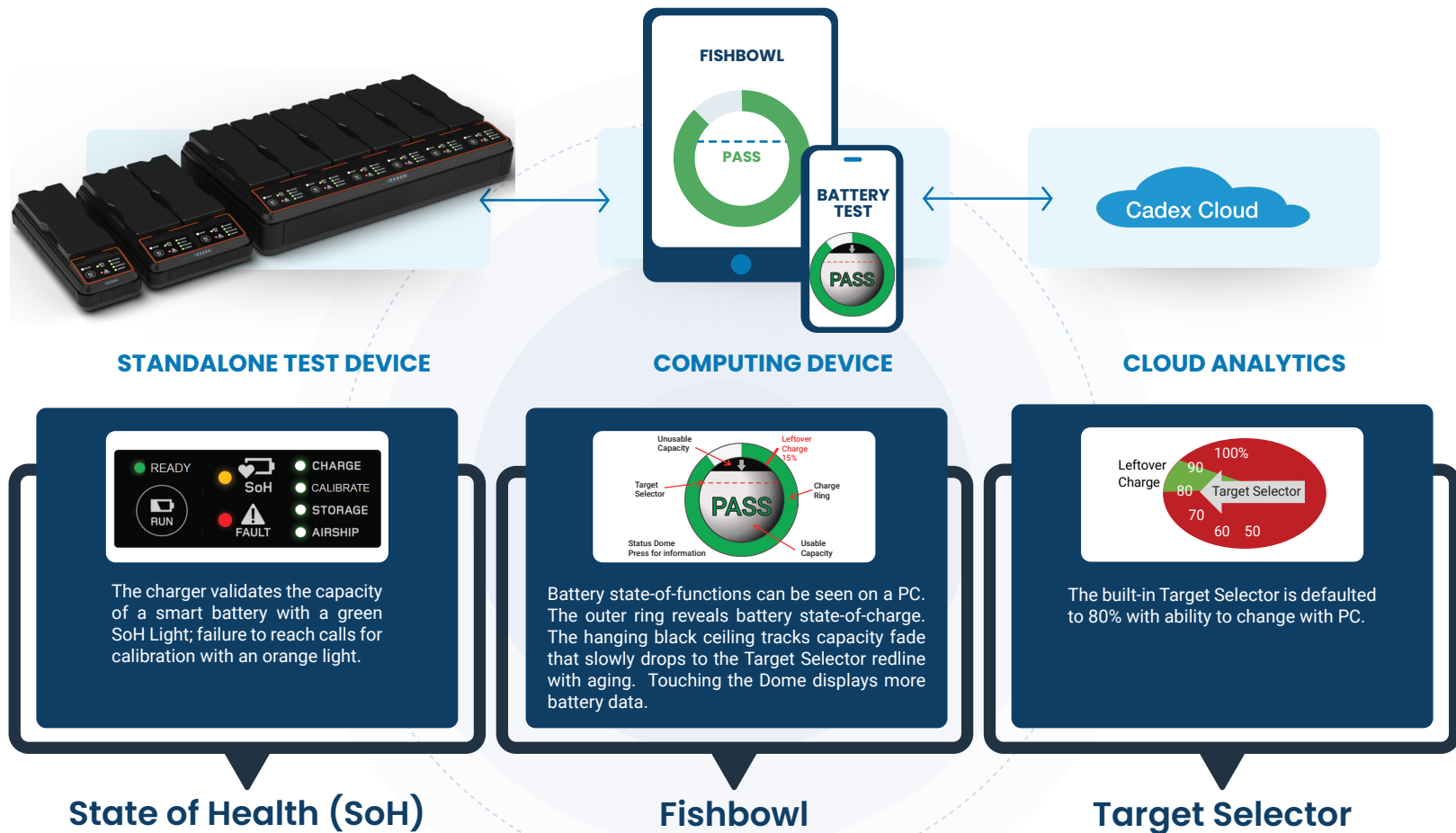Increase up time of critical equipment while saving on battery costs

UAV/DRONES
Fast charge drone batteries in batches to always have fully charged batteries available

INDUSTRIAL
Maximize ROI on equipment and personnel with over 3,200 different custom battery adapters

STANDALONE TEST DEVICE

COMPUTING DEVICE

CLOUD ANALYTICS

The charger validates the capacity of a smart battery with a green SoH Light; failure to reach calls for calibration with an orange light.
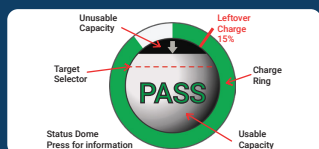
Battery state-of-functions can be seen on a PC. The outer ring reveals battery state-of-charge. The hanging black ceiling tracks capacity fade that slowly drops to the Target Selector redline with aging. Touching the Dome displays more battery data.
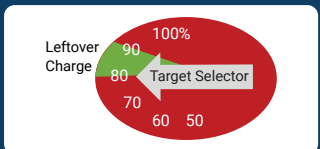
The built-in Target Selector is defaulted to 80% with ability to change with PC.

State of Health (SoH)

Fishbowl

Target Selector

Feature	USC-1 (1 Bay)	USC-2 (2 Bays)	USC-6 (6 Bays)
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 60 mm (9.8 x 4.3 x 2.4 Inch)	250x180x60 mm (9.8 x 7.1 x 2.4 Inch)	250x460x90 mm (9.8 x 18.1 x 3.5 Inch)
Weight	360g(0.79lbs)	700g(1.54lbs)	3500g(7.07lbs)
Environmental	Operating 0°C to +45°C (32°F to 113°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		

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