

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% SoCStorage: 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
DC Power Input	AC Input Protection MIL-STD-704F Voltage/Frequency Transient 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	USB-C to PC running CadexLink in 1, 2 Bay Devices	 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 Humidity: Non-conder	+70°C (-40 °F to 158 °F)	
Approvals	UL, CE, RoHS, REACH, RED, WEEE, ISTA 3A, IP44		
Warranty	Cadex warrants two (2) years against defective materials and workmanship from original purchase date.		