



THALES

Thales Defense & Security, Inc.

2026 Products



22605 Gateway Center Drive
Clarksburg, MD 20871

CAGE Code 23386

Universal Battery Charger-Lite (UBC-Lite)

Most Advanced Power Management Solution



The UBC-Lite combines the functions and capabilities of multiple battery chargers into one small, scalable package. It provides battery-charging technology to the Warfighter through a highly rugged, field-deployable, multi-battery solution for austere mission environments. Designed as a backpack portable charger configuration, this expeditionary charger provides a charging platform for a wide range of military batteries.

Technical Specifications

Physical Parameters

Height: 2.6 inches (6.60 cm)

Length: 6.7 inches (17.00 cm)

Width: 3.6 inches (9.14 cm)

Weight: 2 pounds (907 g)

Environmental Specifications

MIL-STD-810G

Immersion up to 1 meter

Allows charging during driven rain

Power Input

Max Input Power 360 Watts at 28V

Max Input Power 310 Watts at 24V

Operating Voltage Range 12 to 46 VDC

Input DC Robustness MIL-STD-1275D

Efficiency 95% Nominal

ESD/EMI

Electrostatic Discharge EN-61000-4-2
(Level 4)

EMC MIL-STD-461G

(SMBus), DQ

Data Ports








USB-C for Firmware Upgrade

Smart Charging Protocols Smart Battery Bus











Part Number	System Description	NSN #	
1600903-1	UBC-Lite Standard Unit		
1600903-2	UBC-Lite Basic Charger Unit		
1100771-501	UCB-Line Standard Charger Kit		
100771-502	UBC-Lite Basic Charger Kit		
1100771-503	UBC-Lite Complete Charger Kit		
Part Number	Accessory Description	NSN #	Category
✓ 1600903-1	UBC-Lite with CWB Capability	6130-01-687-8917	
✓ 1600903-2	UBC-Lite w/o CWB		
✓ 1600902-1	UBC-Lite AC/DC Power Supply	6130-01-687-9026	
✓ 1600813-3	UBC-Lite 120 Watt Solar Panel	6117-01-664-7860	
✓ 1600903-10	UBC-Lite Carrying Case		
✓ 855009-001	UBC-Lite AC Power Cord	5905-00-078-5966	
✓ 85585-001	UBC-Lite 18'L Solar Extension Cable	6150-01-664-8171	
✓ 85590-001	UBC-Lite DC Cable with Alligator Clips		

Part Number	System Description	NSN #	
1100863-502	Standard UBC-LITE II		
1100863-501	Standard UBC-LITE II Complete Kit		
Part Number	Accessory Description	NSN #	Category
✓ 1600813-7	Solar Panel, 180W		
✓ 1600981-1	360W AC/DC Power Supply		
✓ 855009-001	AC Power Cord		
✓ 1600975-1	UBC-LITE II		
✓ 1600975-10	Carrying Case		
✓ 85585-001	18' Solar Extension		
✓ 85589-001	Cable, DC Input w/Alligator Clips		

Accessories

Part Number	NSN Number	Accessory Description	
1600787-1	6130-01-618-4110	AC/DC Power Supply	
1600813-3	6117-01-664-7860	Solar Panel, 120W	
1600829-2V	6130-01-664-7897	Tactical Hardcover, Vehicle	
1600929-8	6130-01-664-7904	Tactical Softcover	
1600829-23	8145016647882	Transportation Case	
855009-001	5905-00-078-5966	Power Cord 10A 6'L	
85568-003	6150-01-664-8187	Cable Assy Univ DC 6'L	
85585-001	6150-01-664-8171	Cable DC Input 18'L	

Accessories

Part Number	NSN Number	Accessory Description	
85587-002		Cable Slave, Input NATO	
85589-002	6150-01-643-6789	DC Input Cable With Alligator Clips	
4102869-501-SP	6130-01-664-8300	Conformal Battery Adapter Spare	
4102870-501-SP	6130-01-664-8268	Universal Battery Adapter	
4102962-501-SP		ALR Battery Adapter	
4103154-501-SP		Spear Battery Adapter	
4103081-501-SP		Combo Battery Adapter	
4600171-1	5340-01-666-8655	UBC Shock Tray	
1600903-10		UBC-Lite Carry Case	
1600981-1		UBC-Lite Power Supply, 360W	
1600902-1		UBC-Lite Power Supply 160W	<i>Photo Not Available</i>

Capabilities

Key Features

- > Two Independent 100 Watt USB-C Power Delivery Ports (bi-directional)
- > Cable-Free Charging of DoD Batteries (no external cables or adapters)
- > Up to Six Universal SMBus Ports for Conformal Wearable Batteries (CWB) or similar
 - Two AN/PRC-148C/D/E/F, AN/PRC-163 or AN/PRC-161
 - One BB-2590 or BB-2557
- > Ultra-Fast Charging: Supports Charge Rate of Up to 7.5A per CWB Port
- > Simultaneous Charging for Up to Seven Batteries
- > Power Harvesting from Solar, BB-2590, CWB, and USB-C
- > High Power Wireless Charging
- > Built-in Solar MPPT for Direct Connection to Solar Panels
- > Displays Charging Power, State of Charge, State of Health
- > User Selectable (On/Off) Wireless and Harvesting Functions

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Specifications are subject to change without notice.

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