



THALES

Thales Defense & Security, Inc.

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 for backpack portability, the UBC-Lite provides an expeditionary power solution for a wide range of military batteries.

Capabilities

Key Features

- > Two Independent 100 W 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

Technical Specifications

Physical Parameters

Height: 2.60 in (6.60 cm)

Length: 6.70 in (17.00 cm)

Width: 3.60 in (9.14 cm)

Weight: 2 lb (907 g)

Environmental Specifications

MIL-STD-810G

Immersion: up to 1 meter

Allows charging during driven rain

Power Input

Max Input Power: 360 W at 28V

Max Input Power: 310 W 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-461 G
(SMBus), DQ

Data Ports

USB-C for Firmware Upgrade

Part Number				System Description	NSN
1600903-1				UBC-Lite Standard Unit	
1600903-2				UBC-Lite Basic Charger Unit	
1100771-501				UCB-Lite Standard Charger Kit	
100771-502				UBC-Lite Basic Charger Kit	
1100771-503				UBC-Lite Complete Charger Kit	

Accessories

Part Number	NSN	Accessory Description	
1600813-3	6117-01-664-7860	Solar Panel, 120 W	
855009-001	5905-00-078-5966	Power Cord 10A 6 ft L	
85568-003	6150-01-664-8187	Cable Assy Univ DC 6 ft L	
85585-001	6150-01-664-8171	Cable DC Input 18 ft L	
85587-002		Cable Slave, Input NATO	
85589-002	6150-01-643-6789	DC Input Cable with Alligator Clips	
1600903-10		UBC-Lite Carrying Case	
1600902-1		UBC-Lite Power Supply 160 W	

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Specifications are subject to change without notice.

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072026:V2

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