

TACTICAL POWER STATION STRUMKO

Technical datasheet



STRUMKO

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TACTICAL POWER STATION STRUMKO

1. General Information

Product Type: Portable Tactical Battery Station

Intended Use: Auxiliary / Primary Power Supply Unit



2. Manufacturer Information

Company Name: STRUMKO ENERGY LLC

Legal Address: : 23 Odeska Str., Kryukivshchyna, Bucha dist., Kyiv reg., 08121, UKRAINE

E-mail: support@strumko.com

3. Key Parameters & System Architecture

System Design: The battery unit consists of a Main Module and an Auxiliary Module (Integrated Charger + Inverter). The Auxiliary Module connects to the rear panel of the Main Module in accordance with the User Manual.

Auxiliary Modules: The Main Module supports the connection of an optional STRUMKO DC-DC converter panel (12V-24V/28V).

3.1 General System Specifications

Parameter	Specification
Nominal Energy Capacity	2,930 Wh
Nominal Output Power	2.4 kW (3.0 kVA Peak/Apparent)
AC Input Voltage Range	95 – 140 VAC
AC Output Voltage Range	115 – 125 VAC
DC Battery Voltage Range	11.2 – 16.8 VDC
System Efficiency (ETA)	93%
Battery Chemistry	Li-ion NMC
Ingress Protection — Battery Module	IP56/IP65 (closed)
Ingress Protection — Inverter Module	IP22/IP65 (closed)
Cooling Method (Battery)	Passive Cooling
Cooling Method (Inverter)	Active Forced Air Cooling
Operating Temp. Range (Inverter)	-40 °C to +65 °C (-40 °F to +149 °F)
Battery Charging Temp. (Heating Off)	0 °C to +55 °C (+32 °F to +131 °F)
Battery Charging Temp. (Heating On)	-20 °C to +55 °C (-4 °F to +131 °F)
Battery Discharging Temp. Range	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	Up to 95% RH (non-condensing)



3.2. Battery Module Specifications

Parameter	Specification
Cell Chemistry	Li-ion NMC
Nominal Energy	2,930 Wh
Nominal Voltage	14.8 VDC
Operating Voltage Range	11.2 VDC – 16.8 VDC
Max Continuous Charge Current	100 A
Max Continuous Discharge Current	200 A

3.3. Battery Cell Configuration

Parameter	Specification
Cell Form Factor	Pouch Cell
Individual Cell Nominal Capacity	66 Ah
Total Cell Count	12 Cells
Assembly Configuration	4S3P (4 Series, 3 Parallel)

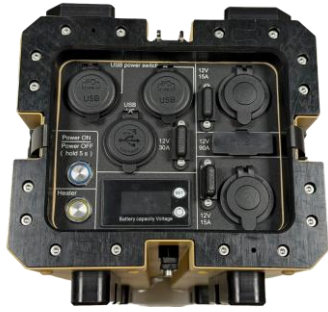
4. Physical Dimensions & Enclosure

Module / Assembly	Width (W)	Height (H)	Length (D)	Net Weight
Battery Module	205 mm (8.07 in)	201 mm (7.91 in)	555 mm (21.85 in)	23.5 kg (51.8 lbs)
Inverter/Charge Module	205 mm (8.07 in)	331 mm (13.03 in)	596 mm (23.46 in)	24 kg (52.9 lbs)
Assembled System	205 mm (8.07 in)	522 mm (20.55 in)	596 mm (23.46 in)	47.5 kg (104.7 lbs)
Wooden Transport Crate	270 mm (10.6 in)	570 mm (22.4 in)	670 mm (26.4 in)	10 kg (22.0 lbs)

5. Standard Package Content

1. Battery Module with Protection Covers;
2. Adapter Cover;
3. Inverter/Charge Module with Protection Covers;
4. Cables & Interconnects
5. Operational Documentation: Technical Datasheet, User Manual, Warranty book.
6. Wooden Transport Crate



Battery module STRUMKO**Inverter/Charge Module****Assembled System**

6. Operating & Safety Guidelines

Operation of this unit is permitted strictly in compliance with the User Manual. Reverse polarity connection, physical damage to the enclosure, contact with liquids, or immersion in water is strictly prohibited. In the event of moisture exposure, dry the housing, purge the connection ports, and check the integrity of seals and electrical contacts before use.

The battery module may only be charged using the original, certified charging module.

7. Storage Conditions & Requirements

Storage Environment: Store the battery modules indoors in a dry, well-ventilated area at ambient temperatures between 5 °C and 40 °C (41 °F to 104 °F) with relative humidity not exceeding 75% at 25 °C (77 °F).

Safety Distances & Isolation: Keep the unit strictly isolated from corrosive materials, reactive chemicals, and flammable substances. Maintain a minimum clearance distance of 1 m (3.3 ft) from heaters, radiators, or heat sources.

Packaging & Placement: The product must be stored in its original transport packaging, arranged on racks or pallets off the floor.

State of Charge (SoC) & Maintenance: For long-term storage, maintain the battery State of Charge at 60% – 70%. Perform a full recharge cycle at least once every 6 months to prevent deep discharge and protect battery health.

8. Warranty Term:

The standard warranty period is 12 months from the date of delivery to the end customer, subject to operation under normal conditions and strict compliance with the warranty terms specified in the Warranty & Service Booklet.

Commissioning Date: ____ / ____ / 2026



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