

HSXEP Range

High Specification eXpanded Power — Expansion Packs | HSX Compatible | LiFePO4

OVERVIEW

The Powapacs HSXEP Range is a family of rugged, plug-and-play battery expansion packs designed to extend the energy capacity of HSX field power stations. Available in three sizes — 3,430Wh, 5,376Wh, and 11,776Wh — each unit connects directly to the HSX via a locking parallel port with no tools and no configuration required.

HSXEP units provide battery capacity only. All power output, control, and monitoring remains through the primary HSX unit. Multiple HSXEP packs can be daisy-chained to build compound energy systems for extended missions or high-demand operations.

Built to IP65, operating from -30°C to +60°C, with an integrated BMS providing full overvoltage, undervoltage, short circuit, overcurrent, and thermal protection. Field-swappable with no downtime.

CE certified to EMC Directive 2014/30/EU and LVD Directive 2014/35/EU. IATA compliant for air transport. 5-year manufacturer's warranty (excludes physical damage). Patent Pending: GB2510033.5.



MODEL RANGE

Model	Capacity	Nominal Voltage	Weight (kg)	Dimensions (L x W x H mm)	Compatible With	MPN
HSXEP 3600	3,430 Wh	25.6V	37	540 x 380 x 280	HSX	HSXEP 3600
HSXEP 6000	5,376 Wh	25.6V	55	540 x 380 x 280	HSX	HSXEP 6000
HSXEP 12000	11,776 Wh	51.2V	70	700 x 480 x 360	HSX	HSXEP 12000

SHARED SPECIFICATIONS — ALL HSXEP MODELS

SPECIFICATION	VALUE	SPECIFICATION	VALUE
Battery Chemistry	LiFePO4 (Lithium Iron Phosphate)	Inverter / Outputs	None — capacity extension only
Cycle Life	>3,000 cycles @ 80% DoD	HSX Compatibility	All HSX models (parallel port)
Expected Service Life	>8 years at one full cycle per day	Case Material	High-impact black polymer, UV stabilised
Connection Method	Plug-and-play locking parallel port	Fire Safety	UL94 V-0 flame retardant materials
Deployment Time	Under 1 minute — no tools required	Altitude	Up to 4,500m operating altitude
IP Rating	IP65	MTBF	>60,000 hours
Operating Temp	-30°C to +60°C (discharge)	Warranty	5 years (excl. physical damage)
Charging Temp	-10°C to +50°C	CE — EMC	LGT24A139C02 2014/30/EU
Air Transport	IATA Compliant (LiFePO4)	CE — LVD	LGT24A139C05 2014/35/EU
BMS Protection	Over/under voltage, short circuit, overcurrent, thermal runaway	Patent	Pending: GB2510033.5
Parallel Support	Multiple units daisy-chainable		

PRIMARY USE CASES

<p>Military & Defence</p> <p>Extend HSX runtime at FOBs, command posts, signals, and subterranean operations without resupply.</p>	<p>Construction & Civil Engineering</p> <p>Increase on-site energy reserves for tools, welfare, and lighting across extended shifts.</p>	<p>Humanitarian & Emergency Response</p> <p>Stack additional capacity for field hospitals and comms in prolonged disaster response operations.</p>
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