

# HSREP M-Spec Xray 4 & Xray 5

Rugged Field Battery Expansion Packs — Plug-and-Play Capacity Extension for HSR M-Spec Systems

## OVERVIEW

The HSREP M-Spec Xray 4 and Xray 5 are rugged, plug-and-play battery expansion packs designed to extend the energy capacity of any HSR M-Spec field power station. Built on high-performance LiFePO4 cells, they connect directly to the HSR via a locking parallel port — no tools, no configuration, under one minute to deploy.

The Xray 4 adds 3,840Wh at 25.6V. The Xray 5 adds 5,376Wh at 51.2V, making it the higher-capacity option for extended operations or heavier load profiles. Both units are stackable and field-swappable.

The expansion packs provide battery capacity only — all power output and control remains through the primary HSR M-Spec unit. No additional inverter or cabling is required.

IP65 rated, operating from -30°C to +60°C. CE certified to EMC Directive 2014/30/EU and LVD Directive 2014/35/EU. IATA compliant for air transport as LiFePO4 systems.

5-year manufacturer's warranty (excludes physical damage). Expected service life exceeds 8 years at one full cycle per day. Patent Pending: GB2510033.5.



HSREP M-Spec Xray 4		HSREP M-Spec Xray 5	
Capacity:	3,840 Wh	Capacity:	5,376 Wh
Voltage:	25.6 V	Voltage:	51.2 V
Weight:	40 kg	Weight:	52 kg
Cycles:	>3,000	Cycles:	>3,000

## TECHNICAL SPECIFICATIONS

SHARED SPECIFICATIONS		MODEL COMPARISON		
		Xray 4	Xray 5	
Battery Chemistry	LiFePO4 (Lithium Iron Phosphate)			
Cycle Life	>3,000 cycles @ 80% DoD	Capacity	3,840 Wh	5,376 Wh
Expected Service Life	>8 years at one full cycle per day	Voltage	25.6 V	51.2 V
Connection Method	Plug-and-play locking parallel port	Weight	40 kg	52 kg
Deployment Time	Under 1 minute — no tools required	L x W x H	575x421x287	575x421x287
IP Rating	IP65	Cells	LiFePO4	LiFePO4
Operating Temp	-30°C to +60°C	Cycle Life	>3,000	>3,000
Air Transport	IATA Compliant (LiFePO4)	IP Rating	IP65	IP65
BMS Protection	Over/under voltage, short circuit, overcurrent, thermal	Op. Temp	-30/+60°C	-30/+60°C
Parallel Support	Multiple units daisy-chainable	IATA	Compliant	Compliant
Inverter / Outputs	None — capacity extension only	Warranty	5 years	5 years
Warranty	5 years (excl. physical damage)	Connect	Parallel	Parallel
CE — EMC	LGT24A139C02   2014/30/EU	Deploy	<1 min	<1 min
CE — LVD	LGT24A139C05   2014/35/EU	Stackable	Yes	Yes
Patent	Pending: GB2510033.5	Best For	Standard ext.	High capacity

## PRIMARY USE CASES

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