PowerHive

5 MWh 20 ft Liquid Cooled Battery Energy Storage System

SAFETY & RELIABILITY

- **Liquid Cooling** High thermal stability
- **Fire Protection** Multi-stage container-to-module system
- **Smart Sensing** Comprehensive cell monitoring and protection
- **Cell Type** Safe prismatic LFP cells

EFFICIENCY & SERVICE

- **Modular Design** Flexible rack allows easy maintenance and installation
- **Climate Ready** Operates from -30°C to +55°C
- **Low Noise** Under 80dB at 1 metre distance

HIGH INTEGRATION

- **High Density** 20 ft HC container holds up to 5.016 MWh
- **Plug & Play** Factory-tested integrated packs, TMS and FPS minimise site work



A vikramsolar Enterprise

PowerHive

Our advanced battery energy storage enabling reliable, utility scale use

5 MWh 20 ft Liquid Cooled Lithium Ion Phosphate Battery Energy Storage System

ELECTRICAL PARAMETERS	
Cell Type	$LiFePO_4$
Pack Configuration	314Ah1P104S/Pack
String Configuration	314Ah1P416S/Cluster
System Configuration	314Ah1P416S/Cluster × 12 Clusters
Battery Voltage Range	1164.8 V – 1497.6 V
Nominal Power	5.016 MWh
Nominal Voltage Range Container	1331.2 V
Nominal SOC at Delivery	<30%
Nominal Charge Discharge Rate	0.5 P @25°C ±2
Round Trip Efficiency	≤93.5%
Auxiliary Power Supply	3P+N 400 V AC/50 kVA

Powered by in-house R&D and upcoming cell manufacturing for end-to-end control

GENERAL PARAMETERS	
Dimensions (L × W × H)	6058 × 2438 × 2896 mm
Weight	<43 T
IP Rating	IP55
Operating Temperature Range	-30°C to +55°C
Storing Temperature Range	-35°C to +55°C
Operating Humidity	5–95% non-condensing
Max Working Altitude	≤4000 m; degradation applicable above 2000 m
Cooling Concept	Liquid Cooling
Noise	<80 dB; 1 m away from equipment
Fire Suppression System	Aerosol
Communication Interfaces	CAN/RS485
Communication Protocols	PCS: CAN/RS485 EMS: IEC61850

COMPLIANCES & CERTIFICATIONS	
Safety	IEC 62619, IEC 61000, IEC 62477
Transportation	UN 38.3

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For more info, scan for our website

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