

Sol-Ark Commercial Energy Solutions





Battery Model Name:

208V Options

Outdoor

L3 HVR-60

Indoor

L3 HV-40 13 HV-40KWH-30K

Battery Energy Storage System

S Model Name: I-Ark Product SKU:	L3 HVR-60 L3 HVR-60KWH-30K L3-HVR-60KWH	L3 HV-40KWH-30K L3-HV-40KWH
stem Data		
Compatible Inverter Model	Sol-Ark 30K-3P-208V	
Cell Chemistry	Lithium Iron Phosphate	
Nameplate Energy Capacity (DC)	61.44 kWh	40.96 kWh
Usable Energy Capacity (DC) ¹	55.30 kWh	36.86 kWh
Built-In DC Disconnect Rating	200A	
Internal Fuse Rating	160A	
Max. # Battery Units Per Inverter	6	16
Max. # Inverters in Parallel	6	10
Recommend Depth of Discharge	90%	
Roundtrip Efficiency Charge/Discharge (DC)	94% (25C, 0.5C)	
System Nominal Voltage (DC)	307V	410V
System Operating Voltage (DC)	294V – 336V	392V – 448V
Battery Pack Internal Configuration	6s6p	8s1p
Charge/Discharge Current (DC) ²		
Recommend	100A	50A
Max. Continuous	100A	
Peak Discharge (60 sec @ 25°C)	125A	
Battery Max. Continuous Charge/Discharge Power (DC)	61.44kW	40.96kW
ESS Max. Continuous Charge/Discharge Power (AC)	30kW	
Fault Current Contribution per Battery	4,200A / 1.47ms	

Product Dimensions (WxDxH)	76x107x226 cm (30x42x89 in)	58x58x163 cm (23x23x64 in)	
Net Weight	950 kg (2,095 lbs)	628 kg (1,384 lbs)	
Mounting Type	Outdoor Enclosure	Freestanding Rack Mount	
Material and Finish	Steel – Corrosion Resistant Powder Coat	Steel – Powder Coated	
Operating Temperature ³ and Humidity	-20°C – 50°C (14°F – 122°F) – 5%–85% RH	4°C – 43°C (40°F – 110°F) – 5%–85% RH	
Operating Altitude ⁴	3000m	3000m (9,843 ft)	
Storage Conditions ⁵	-4°F – 95°F – Up to 85% RH (non-cond	-4°F – 95°F – Up to 85% RH (non-condensing) and State of Charge (SOC) 30%	
Ingress Rating	IP55 (NEMA 3R)	IP20 (NEMA 1)	
Noise Level @ 1m	75 dBA at 30°C (86°F)	< 40 dBA at 30°C (86°F)	
Seismic Mounting	Up to C	Up to Category F	
Communication Ports	CAN2	CAN2.0/RS485	

Battery Module Specifications

Mechanical Specifications

Battery Module Nominal Energy Capacity 5.12kWh

Battery Module Nominal Voltage and Capacity 51.2V / 100Ah

Terminal Type Amphenol SurLok - Push Lock Connector

Warranty and Certification

Performance Warranty 6 10 years or 196MWh Throughput 10 years or 130MWh Throughput **Product Warranty** 10 Years Certifications UL1973, UL9540, UL9540a, UN38.3, FCC, Prop 65

1. DC usable energy, test conditions: 90% DOD, 0.3C charge and discharge at 25°C. System usable energy may vary due to system configuration parameters.

2. Output current is affected by battery temperature and SOC.

3. Temperature is based on the average cell temperature as measured by the BMS. Charging is disabled below 0°C (32°F). Derating occurs above 45°C (113°F). See Sol-Ark technical sales for outdoor sites.

4. Battery will operate at a maximum of 1C charge/discharge up to 2000m, above 2000m maximum output is derated to 0.8C, contact Sol-Ark for details.

5. Storage temperature of the battery with no charge or discharge6. EOL (End of Life) 70% retained capacity. See L3 Series warranty document for details.