Sol-Ark

L3 BESS: 208V Outdoor and Indoor



Modular Solutions

L3 HV-40: Stack up to 10 inverters / 160 battery cabinets for 300kWac / 6.4MWh

L3 HVR-60: Stack up to 6 inverters / 36 battery cabinets for 180kWac / 2.2MWh

Efficient and Flexible

Increase business uptime and reliability with industry leading backup power.

Reduce utility demand charges with integrated peak shaving control.

Sell excess energy back to the grid or participate in DER programs.

Scalable and Cost Effective

Maximize ROI on your investment with industry leading cost per kWh. Reduce wiring costs and integrate electric vehicle charging stations using the GEN port.

Combine renewable energy sources.

Innovative

Integrated controls, 200A transfer relays, AC and DC coupling

Reduce installation costs with built-in module and cabinet fire suppression

Integrated four channel MPPT's allow for maximum charging efficiency

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SK150-0021-009

208V Options	Outdoor	Indoor
Battery Energy Storage System		
Battery Model Name:	L3 HVR-60	L3 HV-40
SS Model Name: ol-Ark Product SKU:	L3 HVR-60KWH-30K L3-HVR-60KWH	L3 HV-40KWH-30K L3-HV-40KWH
ystem Data	20111100000	
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	160	A
Max. # Battery Units Per Inverter	6	16
Max. # Inverters in Parallel	6	10
Recommend Depth of Discharge	90	%
Roundtrip Efficiency Charge/Discharge (DC)	94% (250	C, 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	
echanical Specifications		
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 (⁶	9,843 ft)
Storage Conditions ⁵	-4°F – 95°F – Up to 85% RH (non-conde	nsing) 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 Ca	egory F
Communication Ports	CAN2.0	/RS485
ttery Module Specifications		
Battery Module Nominal Energy Capacity	5.12kWh	
Battery Module Nominal Voltage and Capacity	51.2V / 100Ah	
Terminal Type	Amphenol SurLok - Push Lock Connector	
arranty and Certification		
Performance Warranty ⁶	10 years or 196MWh Throughput	10 years or 130MWh Throughput
Product Warranty	10 Ye	ears
Certifications	UL1973, UL9540, UL9540a, UN38.3, FCC, Prop 65	

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.
Output current is affected by battery temperature and SOC.
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.
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.
Storage temperature of the battery temperature.
EOL (End of Life) 70% retained capacity. See L3 Series warranty document for details.

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