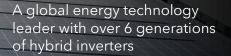


Sol-Ark Commercial Energy Solutions



Deep engineering expertise in smart energy solutions

A track record of results. For over a decade, Sol-Ark has been solving complex energy challenges with innovation and technology

Powered by a vast ecosystem including thousands of distributors, installers, EPCs, integrators, and battery manufacturers

Trusted by global Fortune 500 companies in telecommunications, retail, big tech, restaurants, and the largest space agency in the world

480V Options

Battery Energy Storage System

Outdoor

Indoor

Battery Model Name: ESS Model Name: Gol-Ark Product SKU:	L3 HVR-60 L3 HVR-60KWH-60K L3-HVR-60KWH	L3 HV-60 L3 HV-60KWH-60K L3-HV-60KWH	
iystem Data			
Compatible Inverter Model	Sol-Ark 60K-3P-480V		
Cell Chemistry	Lithium Iron Phosphate		
Nameplate Energy Capacity (DC)	61.44 kWh		
Usable Energy Capacity (DC) ¹	55.30 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)	614.4V		
System Operating Voltage (DC)	588V-672V		
Battery Pack Internal Configuration	12s1p	12s1p	
Charge/Discharge Current (DC) ²			
Recommend	50A		
Max. Continuous	100A		
Peak Discharge (60 sec @ 25°C)	125A		
Battery Max. Continuous Charge/Discharge Power (DC)	61.44kW		
ESS Max. Continuous Charge/Discharge Power (AC)	60kW		
Fault Current Contribution per Battery	4,200A / 1.47ms		
lechanical Specifications			
Product Dimensions (WxDxH)	76x107x226 cm (30x42x89 in)	58x58x218 cm (23x23x86 in)	
Net Weight	950 kg (2,095 lbs)	773 kg (1,705lbs)	
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 (9,843 ft)		
Storage Conditions ⁵	-4°F – 95°F up to 85% RH (non-condensing) – 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 Category F		
Communication Ports	CAN2.0/RS485		
attery Module Specifications			
Battery Module Nominal Energy Capacity	5.12	5.12kWh	
Battery Module Nominal Voltage and Capacity	51.2V /	51.2V / 100Ah	
Terminal Type	Amphenol SurLok - Push Lock Connector		
/arranty and Certification			
Performance Warranty ⁶	10 years or 196M	10 years or 196MWh Throughput	
Product Warranty	· · · · ·	10 Years	
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 with no charge or discharge
EOL (End of Life) 70% retained capacity. See L3 Series warranty document for details.