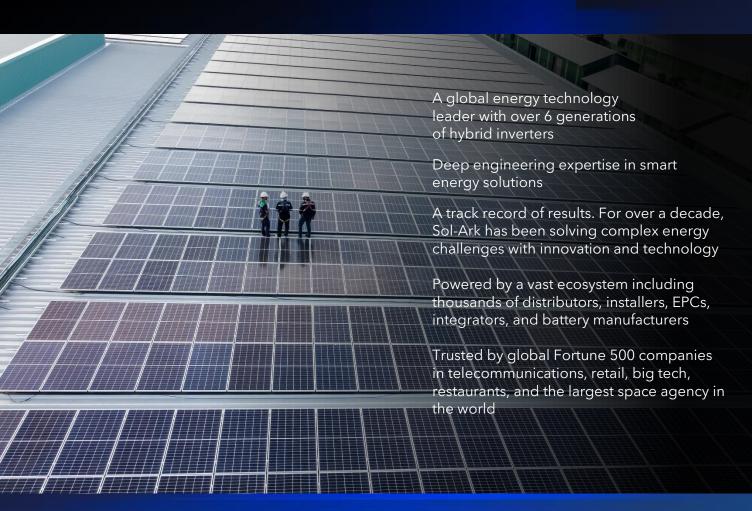


## **Sol-Ark Commercial Energy Solutions**





## 480V Outdoor and Indoor

## **Battery Energy Storage System**

**Battery Model Name:** L3 HVR-60 L3 HV-60 **ESS Model Name:** L3 HVR-60KWH-60K L3 HV-60KWH-60K ol-Ark Product SKU L3-HV-60KWF **System Data** Compatible Inverter Model Sol-Ark 60K-3P-480V **Cell Chemistry** Lithium Iron Phosphate 61.44 kWh Nameplate Energy Capacity (DC) 55.30 kWh Usable Energy Capacity (DC) 1 **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% 94% (25C, 0.5C) Roundtrip Efficiency Charge/Discharge (DC) System Nominal Voltage (DC) 614.4V System Operating Voltage (DC) 588V-672V **Battery Pack Internal Configuration** 12s1p 12s1p Charge/Discharge Current (DC)<sup>2</sup> • Recommend 50A . Max. Continuous 100A 125A • Peak Discharge (60 sec @ 25°C) 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 Mechanical 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 -20°C - 50°C (14°F - 122°F) - 5%-85% RH 4°C - 43°C (40°F - 110°F) - 5%-85% RH Operating Temperature<sup>3</sup> and Humidity 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% IP55 (NEMA 3R) **Ingress Rating** 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 CAN2.0/RS485 **Communication Ports Battery Module Specifications** 5 12kWh **Battery Module Nominal Energy Capacity 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 **Product Warranty** 10 Years Certifications UL1973, UL9540, UL9540a, UN38.3, FCC, Prop 65

<sup>1.</sup> 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.

<sup>2.</sup> Output current is affected by battery temperature and SOC.

<sup>3.</sup> 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.

<sup>4.</sup> 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

<sup>6.</sup> EOL (End of Life) 70% retained capacity. See L3 Series warranty document for details.