



Technical Specifications: 480V Outdoor and Indoor

Battery Model:

L3 60K-HV-60-IP55

L3 60K-HV-60-IP20

System Data

Compatible Inverter	Sol-Ark 60K-3P-480V-N	
Environmental Rating	Outdoor	Indoor
Cell Chemistry	Lithium Iron Phosphate	
Battery Cabinet Capacity	61.44kWh	
System Usable Energy¹	55.30kWh	
Inverter Grid/Gen/Load OCPD Rating	200A	
Backup Capability Per Inverter	60 kWac	
Max DC-Coupled Solar Per Inverter	78 kWac	
Max AC-Coupled Solar Per Inverter	125 kWac	
Max Battery Cabinets Per Inverter	6	
Min Battery Cabinets Per Inverter	1	
Inverter Stacks in Parallel	6 ²	12
Recommend Depth of Discharge	90%	
System Nominal Voltage	614.4V	
System Operating Voltage	499.2V – 700V	
Charge/Discharge Current³		
• Recommend	50A	
• Nominal/Continuous	100A	
• Peak Discharge (2 mins, 25°C)	125A	
Combined Battery + Inverter Efficiency	90% (25C, 0.5C)	
Dimension (feet)	2.5W/3.5D/7.4H	1.9W/1.9D/7.4H
Weight	2095 lbs	1705 lbs
Operating Temperature⁴	-22°F to 131°F	-4°F to 131°F
Humidity	5% – 85%RH	
Altitude	≤2000m	
Storage Temperature	-4°F to 95°F	
Seismic Zone	4	
Communication Port	CAN2.0/RS485	
Battery Module Specifications		
Battery Modules in Series Per Cabinet	12	
Battery Module Energy	5.12kWh	
Battery Module Nominal Voltage	51.2V	
Battery Module Nominal Capacity	100Ah	
Battery Module Qty Per Cabinet		
Warranty and Certification		
Cycle Life	>6000 Cycles (77°F ±7°F 0.5C/0.5C, EOL70%)	
Warranty⁵	10 Years	
Certification	UL9540, UL9540a, UN38.3, CEC, JA12, IEC62477, IEC62619, VDE-AR-N 4105, IEC62109, VDE2510-50	

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. For larger outdoor installations, use the Sol-Ark Mega Ark.

3. The current is affected by temperature and SOC.

4. Charging disconnects below 32°F. Derating occurs above 113°F. Ambient temperature may exceed operating range on IP55 model if using included climate controls. See Sol-Ark technical sales for planning outdoor sites outside of operating temperature range.

5. Battery warranty expires at 6000 cycles or 10-year term, whichever occurs first. 5-year extended warranty option available for inverter only.