



Technical Specifications: 208V Outdoor and Indoor

Battery Model:

L3 30K-HV-60-IP55

L3 30K-HV-40-IP20

System Data		
Compatible Inverter	Sol-Ark 30K-3P-208V-N	
Environmental Rating	Outdoor	Indoor
Cell Chemistry	Lithium Iron Phosphate	
Battery Cabinet Capacity	61.44kWh	40.96kWh
System Usable Energy ¹	55.30kWh	36.86kWh
Inverter Grid/Gen/Load OCPD Rating	200A	
Backup Capability Per Inverter	30 kWac	
Max DC-Coupled Solar Per Inverter	39 kWac	
Max AC-Coupled Solar Per Inverter	54 kWac	
Max Battery Cabinets Per Inverter	6	
Min Battery Cabinets Per Inverter	1	
Inverter Stacks in Parallel	6 ²	8
Recommend Depth of Discharge	90%	
System Nominal Voltage	307V	410V
System Operating Voltage	249.6V-350.4V	332.8V-467.2V
Charge/Discharge Current ³		
• Recommend	100A	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/5.3H
Weight	2095lbs	1384lbs
Operating Temperature ⁴	-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	6s2p	8
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%)	
Warranty ⁵	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.