SiteReach Energy

SiteReach Energy Commercial Energy Solutions by Sol-Ark

Unlocking the Full Energy Value for Commercial

- Reduce Electricity Demand Charges
- Improve Energy Resilience Both Behind and in Front of the Meter
- Leverage Storage as a Competitive Advantage
- Optimize Energy Use
- Gain New Revenue by Selling Excess Energy Back to the Local Utility

Rooftop

Unique, oversized AC-coupling solution perfect for adding batteries to large solar arrays without changing rooftop strategy

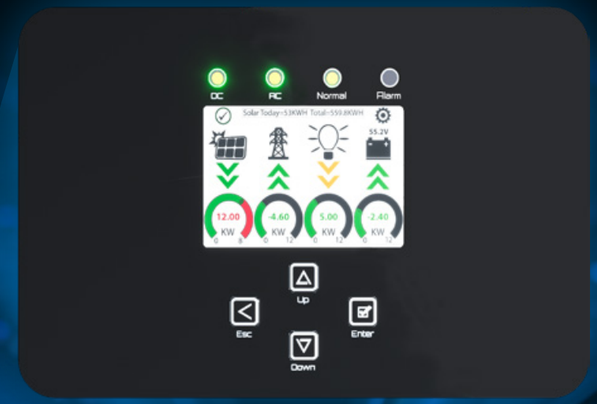
Ground Mount

Rugged and space efficient outdoor ratings to accommodate a wide variety of project environments with or without batteries

Carports, EV Charging Stations, Mechatron EV Carports

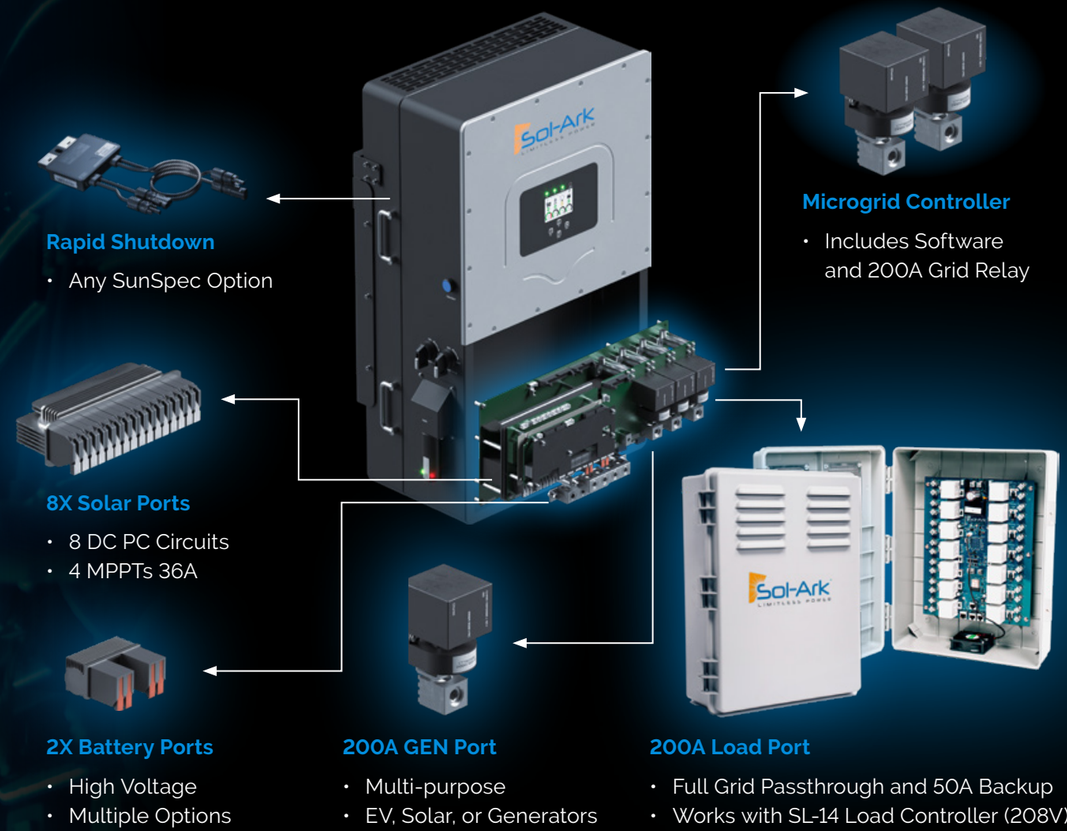
Large DC-coupled solar input allows for use with solar carports in EV charging applications

Seamless UPS
Modular Architecture
NEM3 and VPP Ready



Flexible Hardware for Every Job Site

Whether it's new construction, solar retrofit, site expansion, electric vehicles, or batteries only, Sol-Ark provides hardware solutions for your entire fleet.



Rapid Shutdown

- Any SunSpec Option

Microgrid Controller

- Includes Software and 200A Grid Relay

8X Solar Ports

- 8 DC PC Circuits
- 4 MPPTs 36A

2X Battery Ports

- High Voltage
- Multiple Options

200A GEN Port

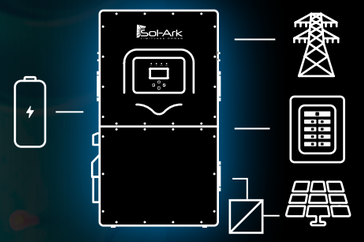
- Multi-purpose
- EV, Solar, or Generators

200A Load Port

- Full Grid Passthrough and 50A Backup
- Works with SL-14 Load Controller (208V)

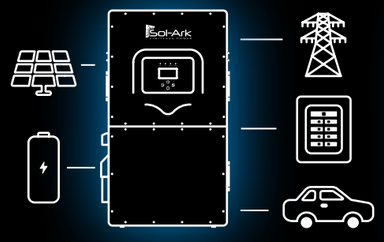
AC Coupling

Easily retrofit very large solar arrays and add batteries with no change to existing solar strategy.



DC Coupling

Connect solar directly, using the GEN port for EV charging or gas generator controls.



Battery Only

Target electric bill savings, provide short duration backup, and expand site capability.

Driving Commercial Energy Resilience

Commercial & Industrial	
Product Suite	30K-3P-208V, 60K-3P-480V
Max PV Power to Battery	30,000W (30K) – 60,000W (60K)
CEC Efficiency	96.5%
Standard Warranty	10 Years + 5 Year Extended Option

Sol-Ark revolutionary commercial hybrid inverters simplify adding storage to commercial buildings. The Sol-Ark 30K provides native 208V three-phase electricity out-of-box, and the Sol-Ark 60K is 480V. Both include a microgrid controller, allowing savings to be optimized when grid connected and automatically isolated during power outages.

Both the 30K and 60K are stackable to 10 units of high voltage battery bank options, increasing project size and site flexibility. A multi-use port provides flexible interconnect to a variety of devices, including AC coupling, EV chargers, generator, or outdoor service panels.

AI-Powered Smart Load Management
14 x 100A Channels, up to 240V
Ensure Quality Performance with Backup Circuit Prioritization
Enhances Inverter Capability by 2X and Battery by 30%
Smart, In-Platform Software powered by Sol-Ark
Convenient Installation Next to Existing Load Panel
Advanced State-of-Charge and Time Shift Controls

Limitless Lithium™

Battery Energy Storage System
L3 HVR-60, Compatible with 30k and 60k Inverters

Features/Innovations

- Fully integrated energy storage solution – hybrid Inverter, battery and fleet management
- Built-in dual fire suppression including cabinet and packs
- Integrated air conditioner for temperature control
- Intelligent EMS, BMS and hybrid inverter technology
- Supports up to 6 battery cabinets per Inverter
- 10-Year Warranty

Limitless Lithium™

Battery Energy Storage System
L3 HV-40 and L3 HV-60

Features/Innovations

Prismatic cells offer maximum reliability, efficiency, and safety

Automatic configuration of batteries and BMS

5kW packs include built-in fire suppression

Intelligent Battery Management System monitors, balances, and controls battery cells for safe and efficient operation

Supports up to 16 battery cabinets per inverter

10-Year Warranty

Inside of the battery

BMS touch screen offers real-time intelligent monitoring and diagnostics

Modular Outdoor and Indoor Solutions

On-Grid
or Off-Grid

L3 HVR-60: Up to 6 inverters / 36 battery cabinets
30k: 180kWac / 2.2MWh / 234kWdc – 346kWac PV
60k: 360kWac / 2.2MWh / 468kWdc – 720kWac PV

On-Grid
or Off-Grid

L3 HV-40 and L3 HV-60: Up to 10 inverters / 160 battery cabinets
30k: 300kWac / 6.4MWh / 390kWdc – 576kWac PV
60k: 600kWac / 9.6MWh / 780kWdc – 1.2MWac PV

Technical Specifications: 208V Outdoor and Indoor

Battery Model: SKU:	L3 HVR-60 L3-HVR-60KWH	L3 HV-40 L3-HV-40KWH
System Data		
Compatible Inverter	Sol-Ark 30K-3P-208V-N	
Environmental Rating	Outdoor	Indoor
Cell Chemistry	Lithium Iron Phosphate	
Battery Cabinet Capacity	61.44 kWh	40.96 kWh
System Usable Energy[1]	55.30 kWh	36.86 kWh
Built-In DC Disconnect Rating	200A	
Internal Fuse Rating	160A	
Real Power (backup) 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	16
Maximum Inverters Per System	6[2]	10
Recommend Depth of Discharge	90%	
System Nominal Voltage	307V	410V
System Operating Voltage	294V — 336V	392V — 448V
Charge/Discharge Current[3]		
• **Recommend**	100A	50A
• **Nominal/Continuous**	100A	
• **Peak Discharge (2 mins @ 25°C)**	125A	
System Roundtrip Efficiency	90% (25C, 0.5C)	
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
Operating Temperature[4]	-10°C — 50°C (14°F — 122°F)	4°C — 43°C (40°F — 110°F)
Humidity	5% — 85% RH	
Operating Altitude[5]	3000m (9,843 ft)	
Storage Conditions[6]	-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 Zone	4	
Communication Ports	CAN2.0/RS485	
Battery Module Specifications		
Battery Module Configuration	6s2p	8s1p
Battery Module Energy	5.12 kWh	
Battery Module Nominal Voltage	51.2V	
Battery Module Nominal Capacity	100Ah	
Warranty and Certification		
Performance Warranty[7]	10 years or 196MWh Throughput	10 years or 130MWh Throughput
Product Warranty	10 Years	
Certification	UL1973, UL9540, UL9540a, UN38.3, FCC, Prop 65	

1. DC usable energy, test conditions: 90% DOD, 0.3C charge and discharge at 25°C. Usable system energy may vary due to system configuration parameters.
2. For larger outdoor installations use the Sol-Ark Mega Ark.
3. Output current is affected by battery temperature and SOC.
4. Temperature is based on the average cell temperature as measured by the BMS. Battery charging is disabled below 0°C (32°F). Derating occurs above 45°C (113°F). For HVR model, operating temperature range only applies if using included climate controls. See Sol-Ark technical sales for planning outdoor sites.
5. 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.
6. Storage temperature of the battery with no charge or discharge.
7. EOL (End of Life) 70% retained capacity. See L3 Series warranty document for details.

Technical Specifications: 480V Outdoor and Indoor

Battery Model: SKU:	L3 HVR-60 L3-HVR-60KWH	L3 HV-60 L3-HV-60KWH
System Data		
Compatible Inverter	Sol-Ark 60K-3P-480V-N	
Environmental Rating	Outdoor	Indoor
Cell Chemistry	Lithium Iron Phosphate	
Battery Cabinet Capacity	61.44 kWh	
System Usable Energy[1]	55.30 kWh	
Built-In DC Disconnect Rating	200A	
Internal Fuse Rating	160A	
Real Power (backup) 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	16
Maximum Inverters Per System	6[2]	10
Recommend Depth of Discharge	90%	
System Nominal Voltage	614.4V	
System Operating Voltage	588V–672V	
Charge/Discharge Current[3]		
• **Recommend**	50A	
• **Nominal/Continuous**	100A	
• **Peak Discharge (2 mins @ 25°C)**	125A	
System Roundtrip Efficiency	90% (25C, 0.5C)	
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
Operating Temperature[4]	-10°C — 50°C (14°F — 122°F)	4°C — 43°C (40°F — 110°F)
Humidity	5%–85%RH	
Operating Altitude[5]	3000m (9,843 ft)	
Storage Conditions[6]	-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	75 dBA at 30°C (86°F)	< 40 dBA at 30°C (86°F)
Seismic Zone	4	
Communication Port	CAN2.0/RS485	
Battery Module Specifications		
Battery Module Configuration	12s1p	
Battery Module Energy	5.12 kWh	
Battery Module Nominal Voltage	51.2V	
Battery Module Nominal Capacity	100Ah	
Warranty and Certification		
Warranty[7]	10 years or 196MWh Throughput	
Product Warranty	10 Years	
Certification	UL1973, UL9540, UL9540a, UN38.3, FCC, Prop 65	

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. Output current is affected by battery temperature and SOC.
4. Temperature is based on the average cell temperature as measured by the BMS. Battery charging is disabled below 0°C (32°F). Derating occurs above 45°C (113°F). For HVR model, operating temperature range only applies if using included climate controls. See Sol-Ark technical sales for planning outdoor sites.
5. 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.
6. Storage temperature of the battery with no charge or discharge.
7. EOL (End of Life) 70% retained capacity. See L3 Series warranty document for details.

Mega Ark

500kW+ Turnkey Containerized Solutions

To be released mid-year 2024

Features/Innovations

Pre-Engineered

Designed with precise equipment selection to maximize efficiency, reliability and lifespan

Factory Tested

Factory built solution integrates comprehensive safety features

Plug-and-Play

Includes all batteries, power conversion, coupling transformer, safety features, cooling, and protection and controls

Integrated air conditioner for temperature control

Built-in dual fire suppression including cabinet and packs

Energy Efficiency, Independence and Resilience. Delivered.

Peak Shaving

Grid Support

Intermittent Power Generation

Charging Infrastructure

Islanding Options

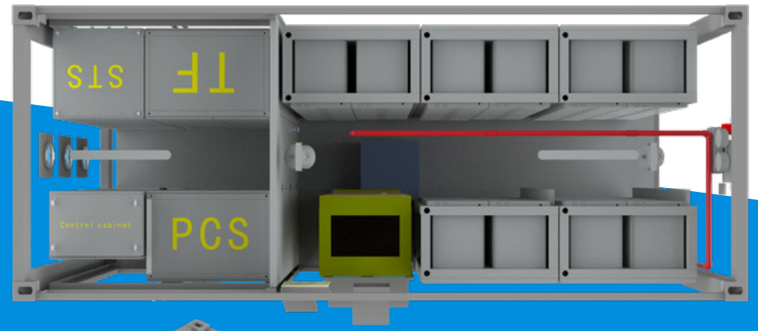
Time of Use

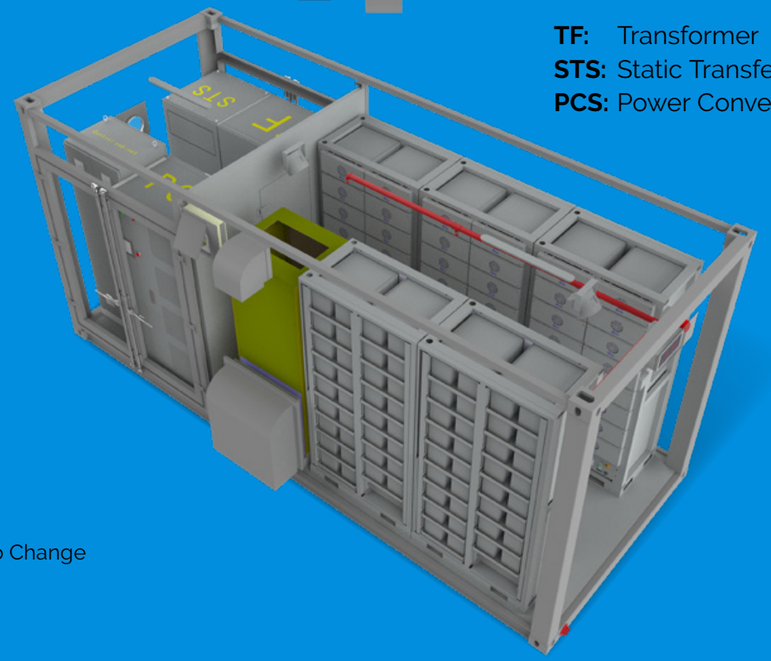
Multi-Use Applications

* Subject to Change

Technical Specifications: Mega Ark

System Data	
AC Output/Input Power	500kW
AC Output Frequency and Voltage	50/60Hz; 480Vac
Grid Type	3W Custom Transformer
THD	<3%
Power Factor	-1 to +1
System Communication	ETH
Black Start	Yes
Fire Detection	Heat and Smoke Detection and Extinguishment
Fire Alarm	Alarm Panel, Strobes and Horns with UPS Backup
Aux Load	10kW
Auxiliary Power Interface	208Vac, 3W+N+PE
Auxiliary Power Back Up	30 mins (Important Load)
Local Emergency Stop	Yes
Remote Stop/Shut-off	Yes
Battery Technical Specification	
Energy Configuration	1060kWh
Battery Operating Voltage	642V–868V
Battery Communication	CAN, RS485
Pack Configuration	1P14S (14 Cells)
Rack Configuration	1P238S (17 Packs)
Stack Configuration	5*1P238S (5 Racks)
Other Technical Specification	
Dimension (feet)	19.9W/8D/9.5H
Weight Approximate	18.2 tons
IP Rating of Enclosure	IP54
Selsmic Parameter	Zone 4
Noise @1m Distance	≤75 dB
Operating Temperature Range	-22°F to 140°F (> 113°F Derating)
Relative Humidity	≤95% (Non Condensing)





TF: Transformer
STS: Static Transfer Switch
PCS: Power Conversion System

* Subject to Change

Monitor and Manage Your Energy from Anywhere

Maximize energy performance of every circuit with smart load management

Automate business backup

Optimize demand response with Peak Shaving

Analyze how much energy was made, used, stored and sold back to the grid

Check the health of the battery

Remote commissioning and settings adjustment

Future Proof. Battery Technology for Today and Tomorrow.

Battery technology is constantly evolving. Sol-Ark's industry leading software architecture enables pairing the best battery for the solution — today and in the future.

A Selection of
Our Industry Leading
Battery Partners

Deka BATTERIES

EnduroEnergy Systems, Inc.

HOMEGRID

PYLONTECH

Sol-Ark

Our Industry Solutions


Data Center


Telecommunications


Oil & Gas


Military


Pharmaceutical


Industrial Automation


Big Box Retail

Financial Institutions


Pharmacies


Gas Stations


Restaurants


Education


Agriculture


Disaster Relief


Wineries

We're innovators...

who solve the most critical energy storage challenges every day

SiteReach Energy

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