Sol-Ark®
LIMITLESS POWER

Commercial Product

Catalog

sol-ark.com | (972) 575-8875

Contents


Sol-Ark
LIMITLESS POWER
805 Central Expressway South
Sol-Ark
LIMITLESS POWER


Sol-Ark
Elevate your Business
With our Limitless Solutions

Elevate Your Business

Focus on commercial applications, emphasizing durability, efficiency, and adaptability in business environments.

L3 Indoor Battery

30K

60K

L3 HVR Outdoor Battery 208V/480V

Powerful, weather resistant battery designed for seamless energy storage in commercial solar systems.

61.4 kWh | **Supports large scale setups**

Fire Safety
Integrated aerosol suppression

-20 to 50° C
Handles extreme temperatures

IP55
Outdoor rated durability

Parallel
Up to 6 batteries

Cat F
Stable in seismic zones

Key Benefits

APPLICATION	Grid Independence	Smart Home
	Energy Conservation	Decarbonize
PLATFORM	24/7 System Monitoring	U.S Based Servers
COMMUNICATION	Closed-loop Communications	My Sol-Ark enabled
HARDWARE	Smart EMS & BMS tech	Temperature Control

480V Options

Battery Energy Storage System

	Outdoor	Indoor
Battery Model Name:	**L3 HVR-60**	**L3 HV-60**
ESS Model Name:	**L3 HVR-60KWH-60K**	**L3 HV-60KWH-60K**
Sol-Ark Product SKU:	L3-HVR-60KWH	L3-HV-60KWH
System 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
Warranted 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	
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
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	
Battery Module Specifications		
Battery Module Nominal Energy Capacity	5.12kWh	
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	

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. Output current is affected by battery temperature and SOC.
3. 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.
4. 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.
5. Storage temperature of the battery with no charge or discharge
6. EOL (End of Life) 70% retained capacity. See L3 Series warranty document for details.

Sol-Ark has a policy of continuous improvement and reserves the right to modify its specifications at any time and without prior notice. Please visit sol-ark.com for the latest information.

L3 HV Indoor Battery 40kWh/60kWh

A robust, high-capacity powder coated battery designed for efficient energy storage in indoor commercial solar applications.

IP20 | **Safe for indoor environments**

Powder Coat
Corrosion-resistant finish

Scalable
Up to 16 cabinets

4 to 43° C
Outdoor rated durability

Compact
Freestanding, space-saving design

<40dBA
Ideal for noise-sensitive areas

Key Benefits

APPLICATION	Peak shaving & backup power	Optimized for indoor use
	208V and 480V options	Scalable Storage Solution
PLATFORM	Smart Energy Management	U.S Based Servers
COMMUNICATION	Closed-loop Communications	My Sol-Ark enabled
HARDWARE	Smart EMS & BMS tech	Temperature control

208V Options

Battery Energy Storage System

	Outdoor	Indoor
Battery Model Name:	**L3 HVR-60**	**L3 HV-40**
ESS Model Name:	**L3 HVR-60KWH-30K**	**L3 HV-40KWH-30K**
Sol-Ark Product SKU:	L3-HVR-60KWH	L3-HV-40KWH
System Data		
Compatible Inverter Model	Sol-Ark 30K-3P-208V	
Cell Chemistry	Lithium Iron Phosphate	
Nameplate Energy Capacity (DC)	61.44 kWh	40.96 kWh
Usable Energy Capacity (DC) [1]	55.30 kWh	36.86 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)	307V	410V
System Operating Voltage (DC)	294V – 336V	392V – 448V
Battery Pack Internal Configuration	6s6p	8s1p
Charge/Discharge Current (DC) [2]		
• **Recommend**	100A	50A
• **Max. Continuous**	100A	
• **Peak Discharge (60 sec @ 25°C)**	125A	
Battery Max. Continuous Charge/Discharge Power (DC)	61.44kW	40.96kW
ESS Max. Continuous Charge/Discharge Power (AC)	30kW	
Fault Current Contribution per Battery	4,200A / 1.47ms	
Mechanical Specifications		
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
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) and 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	
Battery Module Specifications		
Battery Module Nominal Energy Capacity	5.12kWh	
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	10 years or 130MWh Throughput
Product Warranty	10 Years	
Certifications	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. Output current is affected by battery temperature and SOC.
3. 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.
4. 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.
5. Storage temperature of the battery with no charge or discharge
6. EOL (End of Life) 70% retained capacity. See L3 Series warranty document for details.

Sol-Ark has a policy of continuous improvement and reserves the right to modify its specifications at any time and without prior notice. Please visit sol-ark.com for the latest information.

30K-3P-208V Inverter

A powerful, scalable inverter designed for commercial energy storage and grid-tied systems, offering high efficiency and flexibility for large-scale solar applications.

300kW | **Scalable from 30kW-300W**

98%
Max efficiency

16
Batteries per inverter

200A
Grid pass-through

120/208V
No transformer required.

5ms
Seamless backup power

Key Benefits

APPLICATION	Grid Independence	Smart Home
	Energy Conservation	Decarbonize
PLATFORM	24/7 System Monitoring	U.S Based Servers
COMMUNICATION	Closed-loop Communications	My Sol-Ark enabled
HARDWARE	4 Full Sized MPPTs	Long lifespan

DATASHEET

30K-208V

C&I Hybrid Inverter

Inverter Model Name:	30K-3P-208V
Sol-Ark Product SKU:	30K-3P-208V
Input Data (PV)	
Max. Allowed PV Power (STC)	39,000W
MPPT Voltage Range	150-500V
Startup Voltage	180V
Max. Input Voltage [1]	550V
Max. operating input current per MPPT	36A
Max. short circuit current per MPPT	55A
No. of MPP Trackers	4
No. of PV Strings per MPPT	2
Max. AC Coupled Input Power	30,000W
Output Data (AC)	
Nominal AC Voltage (3Φ)	120/208V
Grid Frequency	50 / 60Hz
Real Power, max continuous (3Φ)	30,000W
Max. Output Current	83.4A
Peak Apparent Power (10s, off-grid, 3Φ)	45,000VA
Max. Grid Passthrough Current (10min)	200A
Continuous Grid Passthrough Current	180A
Power Factor Output Range	+/- 0.8 adjustable
Backup Transfer Time	5ms (adjustable)
CEC Efficiency	96.5%
Max Efficiency	97.5%
Design (DC to AC)	Transformerless DC
Stackable	Up to 10 in parallel
Battery Input Data (DC)	
Battery Chemistry	Lithium-ion
No. of Battery Inputs	2
Battery Input Terminal Rating	50A
Nominal DC Voltage	≥300V
Operating Voltage Range	160 - 500V
Battery Capacity Range	50 – 9900Ah
Max. Battery Charge / Discharge Current	100A (50A per input)
Charge Controller Type	CC/CV - BMS Controlled
Grid to Battery Charging Efficiency	96.0%
Automatic Generator Start (AGS)	2 Wire Start - Integrated
BMS Communication [2]	CAN (Controller Area Network)
General Data	
Dimensions (H x W x D)	894 x 528 x 295 mm (35.2 x 20.8 x 11.6 in)
Weight	80 Kg / 176 lb.
Enclosure	IP65 / NEMA 3R
Operating Temperature	-40 – 60°C, >45°C Derating
Noise Level	< 30 dB @ 25°C (77°F)
Idle Consumption - No Load	60W
Communication and Monitoring	Wi-Fi & LAN Hardware Included
Warranty	10 Years
Category	
Certifications and Listings (Grid Support Interactive Inverter)	UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL 1741 CRD-PCS, UL1699B, CEC, SGIP, CSIP
PV DC Disconnect Switch – NEC 240.15	Integrated
Ground Fault Detection – NEC 690.5	Integrated
PV Rapid Shutdown Control – NEC 690.12	Integrated
PV Arc Fault Detection – NEC 690.11	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Surge Protection	DC Type II / AC Type III

1. See Installation Guide for more details on sizing array strings. The highest input voltage is based on the open-circuit voltage of the array at the minimum design temperature.
2. Active BMS communication is required for all lithium batteries. A list of compatible battery partners can be found on our website.

Sol-Ark has a policy of continuous improvement and reserves the right to modify its specifications at any time and without prior notice. Please visit sol-ark.com for the latest information.

60K-3P-480V Inverter

A robust, high-capacity inverter built for large commercial and industrial solar energy systems, delivering exceptional performance and scalability for demanding applications.

9.6MWh | Scalable energy storage

AC & DC
Easy solar integration

16
Batteries per inverter

200A
Grid pass-through

277/480V
Simplifies large installations

5ms
Seamless backup power

Key Benefits

APPLICATION	Grid Independence	Smart Home
	Energy Conservation	Decarbonize
PLATFORM	24/7 System Monitoring	U.S Based Servers
COMMUNICATION	Closed-loop Communications	My Sol-Ark enabled
HARDWARE	4 Full Sized MPPTs	Temperature control

DATASHEET

60K-480V

C&I Hybrid Inverter

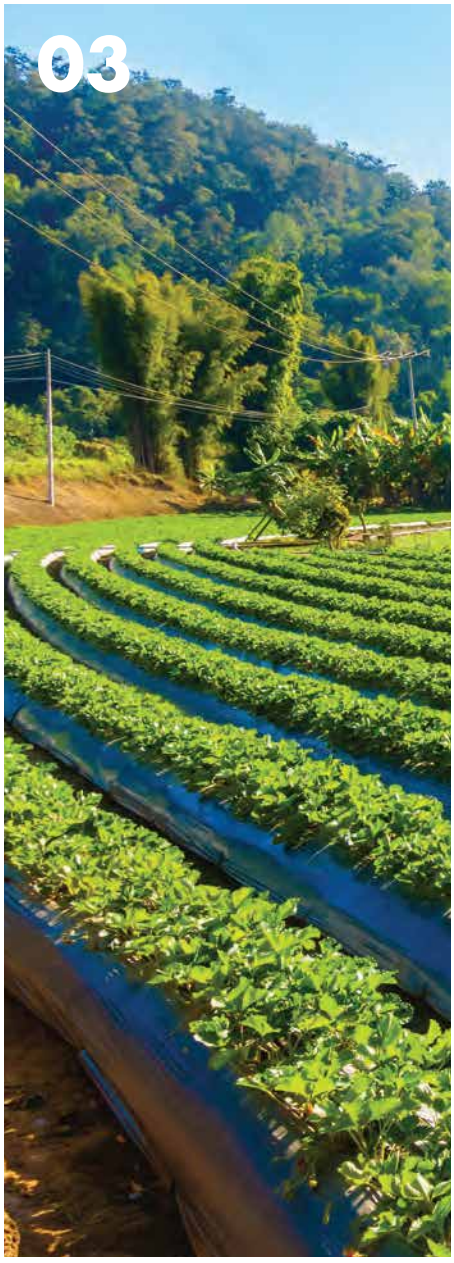
Inverter Model Name:	**60K-3P-480V**
Sol-Ark Product SKU:	60K-3P-480V
Input Data (PV)	
Max. Allowed PV Power (STC)	78,000W
MPPT Voltage Range	150-850V
Startup Voltage	180V
Max. Input Voltage [1]	1,000V
Max. operating input current per MPPT	36A
Max. short circuit current per MPPT	55A
No. of MPP Trackers	4
No. of PV Strings per MPPT	2
Max. AC Coupled Input	60,000W
Output Data (AC)	
Nominal AC Voltage (3Φ)	277/480V
Grid Frequency	50 / 60Hz
Real Power, max continuous (3Φ)	60,000W
Max. Output Current	72.3A
Peak Apparent Power (10s, off-grid, 3Φ)	90,000VA
Max. Grid Passthrough Current (10min)	200A
Continuous Grid Passthrough Current	180A
Power Factor Output Range	+/- 0.8 adjustable
Backup Transfer Time	5ms (adjustable)
CEC Efficiency	96.5%
Max Efficiency	97.5%
Design (DC to AC)	Transformerless DC
Stackable	Up to 10 in parallel
Battery Input Data (DC)	
Supported Battery Chemistry	Lithium-ion
No. of Battery Inputs	2
Battery Input Terminal Rating	50A
Nominal DC Voltage	≥ 600V
Operating Voltage Range	160 - 700V
Battery Capacity Range	50 – 9900Ah
Max. Battery Charge / Discharge Current	100A (50A per input)
Charge Controller Type	CC/CV - BMS Controlled
Grid to Battery Charging Efficiency	96.0%
Automatic Generator Start (AGS)	2 Wire Start - Integrated
BMS Communication [2]	CAN (Controller Area Network)
General Data	
Dimensions (H x W x D)	894 x 528 x 295 mm (35.2 x 20.8 x 11.6 in)
Weight	80 Kg / 176 lb.
Enclosure	IP65 / NEMA 3R
Operating Temperature	-40 – 60°C, >45°C Derating
Noise Level @ 1m	< 30 dB @ 25°C (77°F)
Idle Consumption - No Load	60W
Communication and Monitoring	Wi-Fi & LAN Hardware Included
Warranty	10 Years
Category	
Certifications and Listings (Grid Support Interactive Inverter)	UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL 1741 CRD-PCS, UL1699B, CEC, SGIP, CSIP
PV DC Disconnect Switch – NEC 240.15	Integrated
Ground Fault Detection – NEC 690.5	Integrated
PV Rapid Shutdown Control – NEC 690.12	Integrated
PV Arc Fault Detection – NEC 690.11	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Surge Protection	DC Type II / AC Type III

1. See Installation Guide for more details on sizing array strings. The highest input voltage is based on the open-circuit voltage of the array at the minimum design temperature.
2. Active BMS communication is required for all lithium batteries. A list of compatible battery partners can be found on our website.

Sol-Ark has a policy of continuous improvement and reserves the right to modify its specifications at any time and without prior notice. Please visit sol-ark.com for the latest information.

Tailored Solutions for Every Industry

Sol-Ark understands that every business has unique energy requirements, which is why we offer customizable solar energy solutions designed to meet the specific demands of various industries.



Industry-Specific Solutions

Agriculture

• **Optimized for Remote Operations:** Farmers and agricultural businesses often operate in remote locations where grid reliability is a challenge. Sol-Ark provides robust, off-grid or hybrid energy solutions to ensure uninterrupted power supply for irrigation systems, processing facilities, and essential equipment.

• **Energy Independence:** By integrating renewable energy solutions, agricultural businesses can reduce operational costs and gain energy independence, ensuring they remain resilient even in volatile energy markets.

Healthcare

• **Uninterrupted Power for Critical Operations:** Healthcare facilities, whether hospitals, clinics, or labs, require reliable, continuous power to ensure the safety and care of patients. Sol-Ark's energy storage systems provide emergency backup power, ensuring that essential medical equipment remains operational in the event of a power outage.

• **Energy Efficiency for Cost Savings:** By incorporating solar energy solutions, healthcare facilities can significantly reduce their energy consumption and costs, while contributing to a more sustainable future.

Manufacturing

• **Reduce Downtime & Boost Productivity:** For manufacturing facilities, downtime can lead to significant financial losses. Sol-Ark's inverters offer seamless transitions to back-up power during grid failures, allowing businesses to maintain continuous production.

• **Scalable Solutions:** Our commercial inverters are designed for scalability, allowing manufacturers to expand their energy systems as they grow, while also meeting sustainability goals through de-carbonization initiatives.

Innovative Off-Grid EV charging solution for Costco wholesale

SOLUTIONS

After careful selection, Sol-Ark's innovative 60K 3P-480V hybrid inverters were chosen to integrate seamlessly with EndurEnergy's high voltage lithium-ion storage system to create a powerful, self-sustaining micro-grid that operates with no utility power, providing a faster and more cost-effective solution than bringing in a new utility service from Southern California Edison.

OBJECTIVES

In January 2024, Costco needed to deploy an electrified charging depot at their distribution facility in Mira Loma, California. This facility required a robust solution to power its new electric vehicle (EV) fleet while meeting stringent ESG goals and following an aggressive deployment timeline. As a result, Costco chose to build out their charging infrastructure without relying on the traditional power grid, enabling increased energy independence and operational efficiency.

PROJECT OVERVIEW

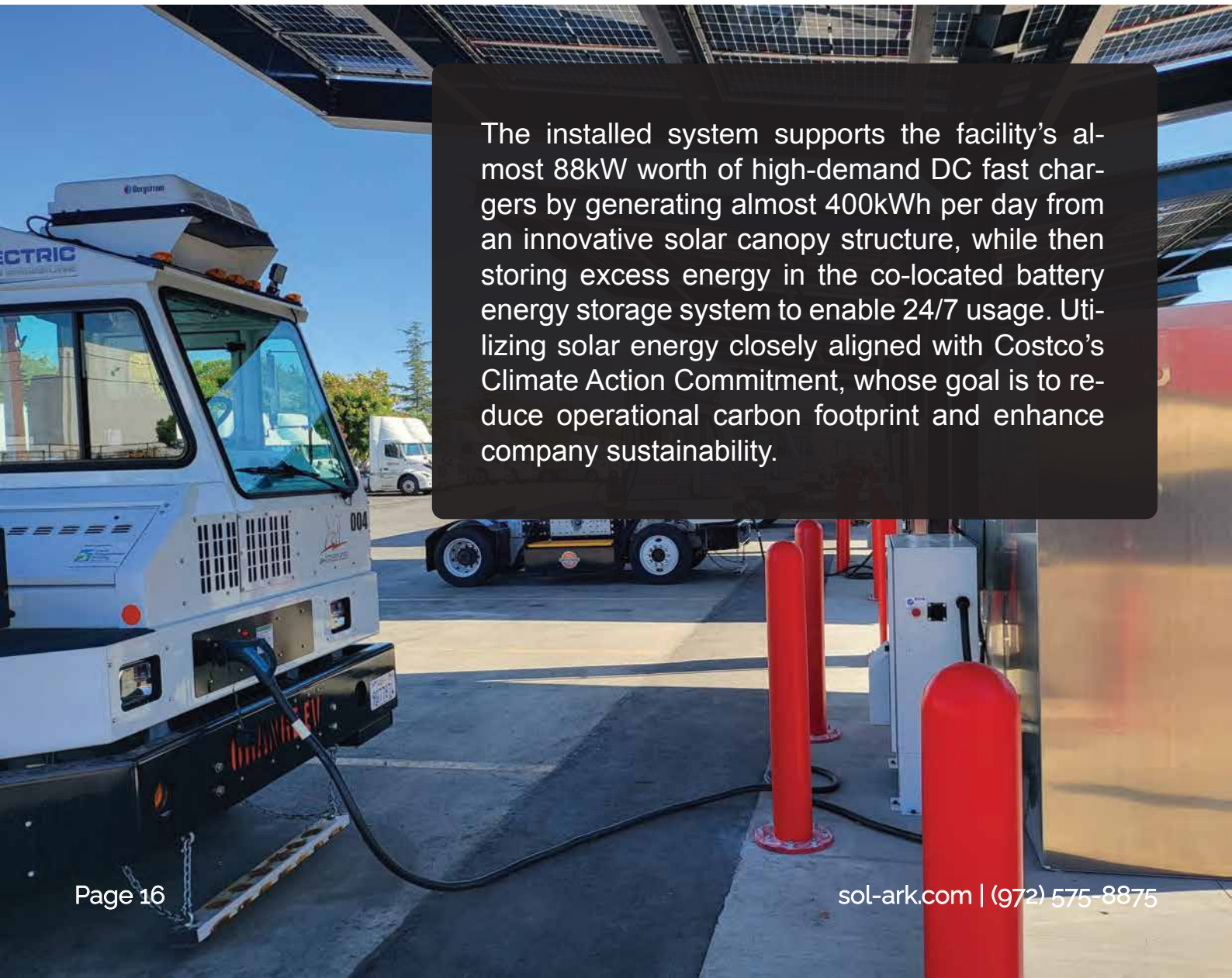
• Location:	Mira Loma, California
• System Components:	4x 60k Hybrid Inverters, 8x EndurEnergy ESS (Energy Storage Systems)
• System Capacity:	240 kWac output with 492 kWh storage
• Solar Array:	75.6 kWdc
• Backup Generator:	None
• Application:	EV fleet charging for 4x 22kW of 480V DC Fast chargers

OUTCOME

By utilizing Sol-Ark's 3 phase commercial inverters, Costco was able to scale their EV charging infrastructure quickly and cost effectively, avoiding hundreds of thousands of dollars on trenching and transformers, and remove the need for new utility service thereby eliminating any kind of time-of-use or demand interconnections process.

Shay Reed, Assistant General Merchandising Manager at Costco, praised the project, stating, "These off-grid electrified structures enable our fleet to meet and exceed our Climate Action Commitments during this energy transition. The partnership with Trinity Structures allowed for a solution that is creative, effective, operationally viable, and financially responsible."

This project exemplifies how Sol-Ark's wide range of adaptable and efficient energy solutions can meet the specific needs of large-scale commercial operations, paving the way for a greener future across multiple industry segments.



The installed system supports the facility's almost 88kW worth of high-demand DC fast chargers by generating almost 400kWh per day from an innovative solar canopy structure, while then storing excess energy in the co-located battery energy storage system to enable 24/7 usage. Utilizing solar energy closely aligned with Costco's Climate Action Commitment, whose goal is to reduce operational carbon footprint and enhance company sustainability.

MySol-Ark Monitoring for Optimal Efficiency

VIRTUAL POWER PLANT

Sol-Ark is seamlessly integrating Virtual Power Plant (VPP) capabilities into our product suite by partnering with leading platforms like Connected Solutions and EnergyHub, enabling customers to maximize energy efficiency and grid resilience through advanced, scalable energy management solutions.

The MySol-Ark app now features a direct integration with the EnergyHub tab, allowing users to easily monitor and manage their participation in Virtual Power Plant programs, enhancing their control over energy usage and optimizing savings.

Remote monitoring with MY SOL-ARK

Monitor & Control your Solar from anywhere

- 100% free for life w/ Internet
- Remote monitoring & Changes
- Fleet monitoring for installers
- Phone or Desktop Compatible

Sol-Ark®
LIMITLESS POWER

FICHA TÉCNICA

8K-2P-N

Inversor Híbrido Residencial

Modelo:	Sol-Ark-8K-48-ST
SKU:	8K-2P
Datos de Entrada (FV)	
Máx. Potencia FV Permitida (STC)	11,000W
Rango de Voltaje de Operación de MPPT	175 - 425V
Rango de Voltaje de MPPT	150 - 500V
Voltaje de Arranque	125V
Máx. Voltaje de Entrada [1]	500V
Máx. Corriente de Entrada por MPPT	18A (autolimitado)
No. de MPPT	2
No. de Cadenas Solares por MPPT	2
Máx. entrada de acoplamiento CA	9,600W
Datos de Salida (CA)	
Voltaje Nominal CA	120/240V, 120/208V, 220V
Frecuencia de la Red	50 / 60Hz
Potencia Real, máx. continua [2]	8,000W
Máx. Corriente de Salida	33A
Potencia Aparente, pico (10s, off-grid)	16,000VA @ 240V
Potencia Aparente, pico (100ms, off-grid)	25,000VA @ 240V
Máx. Corriente de Falla (100ms)	104A
Máx. Corriente de Paso de la Red	63A
Rango de Factor de Potencia	+/- 0.9 ajustable
Tiempo de Transferencia de Respaldo	4ms
Eficiencia CEC	96.5%
Eficiencia Máxima	97.5%
Diseño (CD a CA)	Sin transformador CD
Apilable en Paralelo	No
Datos de Entrada de Batería (CD)	
Tecnologías de Batería	Litio / Ácido-Plomo
Voltaje Nominal CD	48V
Rango de Operación de Voltaje	43 - 63V
Capacidad	50 – 9900Ah
Máx. Corriente de Carga / Descarga	185A
Controlador de Carga	3-Etapas con Ecualización
Eficiencia de Carga de Red a Batería	96.0%
Sensor de Temperatura de Batería	Incluido
Arranque de Generador Automático	Arranque de dos hilos - Integrado
Comunicación BMS	CANBus & RS485 MODBUS
Datos Generales	
Dimensiones (H x W x D)	750 x 450 x 254 mm (29.5 x 17.7 x 10 in)
Peso	35.4 kg / 78 lb.
Recinto (Carcasa)	IP65 / NEMA 3R
Temperatura Ambiente	-25~55°C, > 45°C reducción de potencia
Ruido / Sonido	< 30 dB @ 25°C (77°F)
Consumo Inactivo - Sin Carga	60W
Comunicación y Monitoreo	Hardware Wi-Fi & LAN incluido
Garantía Estándar	10 años
Protecciones y Certificaciones	
Certificaciones y Listados	UL1741-2010/2018, IEEE1547a 2003/2014, FCC 15 Clase B, UL1741SB, CA Rule 21, HECO Rule 14H
Interruptor de desconexión FV – NEC 240.15	Integrado
Detección de Fallos a Tierra – NEC 690.5	Integrado
Control de Apago Rápido de FV – NEC 690.12	Integrado
Detección de Arco Eléctrico (FV) – NEC 690.11	Integrado
Protección de entrada FV contra rayos	Integrado
Protección Contra Polaridad Inversa de FV	Integrado
Interruptor de Salida AC - 63A	Integrado
Interruptor/ Desconexión de Batería - 250A	Integrado
Protección Contra Sobrecarga	CD Tipo II / CA Tipo II

1. Consultar la Guía de Instalación para detalles sobre dimensionamiento de cadenas FV. El voltaje máximo se basa en el voltaje de circuito abierto de la cadena y la temperatura mínima de diseño.

DATASHEET

Limitless 15K-LV

SKU: 15K-2P

15K-2P-N Residential Hybrid Inverter

Input Data (PV)	
Max. Usable PV Power	19,500W
Rated MPPT Operating Voltage Range	175 - 425V
MPPT Voltage Range	150 - 500V
Startup Voltage	125V
Max. DC Input Voltage [1]	500V
Max. Operating Input Current per MPPT	26A
Max. Short Circuit Current per MPPT	44A
No. of MPP Trackers	3
No. of PV Strings per MPPT	2
Max. AC Coupled Input	19,200W
Max. Allowed PV Power	23,400W
Output Data (AC)	
Nominal AC Voltage	120/240V, 120/208V, 220V
Grid Frequency	50 / 60Hz
Real Power, max continuous	15,000W
Max. Output Current	62.5A
Real Power, Max Continuous (Batteries Only, no PV)	12,000W (50A @ 240V)
Peak Power with Batteries Only (30 minutes, Off-Grid) Peak Apparent Power (10s, Off-Grid) Peak Apparent Power (100ms, Off-Grid)	13,000W @240V 24,000VA @ 240V 30,000VA @ 240V
Max Output Fault Current (5s)	94A with PV, 75A (batteries only)
Max Output Fault Current (100ms)	120A
Max. Grid Passthrough Current	200A
Power Factor Output Range	+/- 0.9 adjustable
Backup Transfer Time	5ms
CEC Efficiency	96.5%
Max Efficiency	97.5%
Design (DC to AC)	Transformerless DC
Stackable	Up to 12 in parallel
Battery Input Data (DC)	
Battery Technologies	Lithium
Nominal DC Voltage	48V
Operating Voltage Range	43 - 63V
Capacity	50 — 9900Ah
Max. Battery Charge / Discharge Current	275A
Battery Disconnecting Means	200A/single pole x 2
Charging Controller	3-Stage with Equalization
Grid to Battery Charging Efficiency	96.0%
External Battery Temperature Sensor (BTS)	Included
Automatic Generator Start (AGS)	2 Wire Start - Integrated
BMS Communication	CANBus & RS485 MODBUS
General Data	
Dimensions (H x W x D)	807 x 494 x 306 mm (31.8 x 19.4 x 12 in)
Weight	61.2 Kg / 135 lb.
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-25~55°C, > 45°C Derating
Operating Altitude [2]	2000 m (6561 ft)
Noise	< 30 dB @ 25°C (77°F)
Idle Consumption - No Load	90W
Communication and Monitoring	Wi-Fi & LAN Hardware Included
Standard Warranty	10 Years
Protection and Certifications	
Certifications and Listings	UL 1741 SB, UL 1741 SA11, UL 1741 CRD-PCS, IEEE 1547.1-2020, UL 1699B, UL 1998, FCC Part 15 Class B, CSIP, Ca Rule 21, HECO Rule 14H (SRD 2.0), CSA C22.2 107.1-16
PV DC Disconnect Switch — NEC 240.15	Integrated
Ground Fault Detection — NEC 690.5	Integrated
PV Rapid Shutdown Control — NEC 690.12	Integrated
PV Arc Fault Detection — NEC 690.11	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
AC Output Breaker - 200A	Integrated
Surge Protection	DC Type II / AC Type II

[1] See Installation Manual for more details on sizing array strings. The highest input voltage is based on the open-circuit voltage of the array at the minimum design temperature.

[2] Derating occurs above 2000m (6561 ft).

Sol-Ark has a policy of continuous improvement and reserves the right to modify specifications at any time, and without prior notice. See sol-ark.com for the latest information.

Power Your Business with Sol-Ark

Ready to take control of your energy future? Contact us today for more information on how Sol-Ark can provide tailored energy solutions for your business.

(972) 575-8875