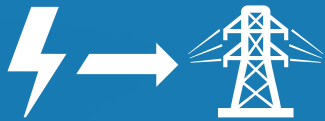
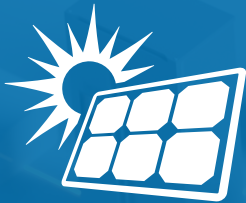


## 30K-3P-208V Key Features

30kW Max Output



AC & DC Coupling



200A 5ms Transfer Switch



USA-Based Support  
& Data Servers



# Sol-Ark 30K-3P-208V

Hybrid Solar Battery System



## Who is Sol-Ark:

We are a premium inverter manufacturer dedicated to making the most reliable, innovative, affordable solar storage solutions to protect families and businesses.

# Approved Battery Partner List

Endur Energy  
Homegrid  
MK Deka  
Pylontech

Coming Soon:  
Simpliphi

# 30K-3P

## 208V



The best value inverter for native 208V Three Phase Applications.

Perfect for light commercial and high-end residential projects

### Sol-Ark Excels at Customer Support

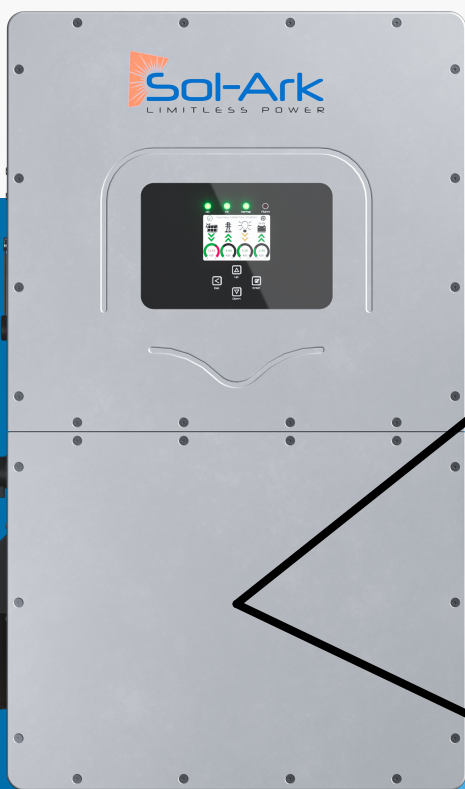
Sol-Ark beats all competition at customer support. Our engineers assist with all questions, diagnoses, and remote unit management.

We can solve virtually any problem without a site visit.

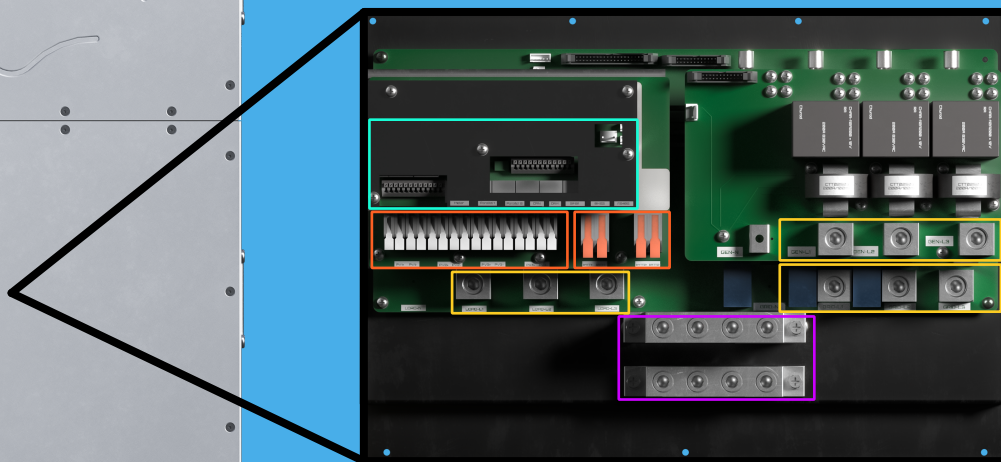
Average of 5 Star Reviews  
**energysage**







## Featuring a Clean & Simple User Wiring Area



**User Wiring Area Legend**

- Sensor Pins + Comm Ports
- DC Inputs: Solar + Battery
- AC Inputs/Outputs: Load + Gen + Grid
- Busbars: Neutral + Ground

## How We Stack Up Against the Competition

Brand & Model	Sol-Ark 30K-3P-208V	OzTek OZPCS-RS35	Generac APKE00013
MSRP Price	\$14,500	N/A	\$9000
Inverter AC Cont. Power	30kW	<b>35kW</b>	11.4kW
Inverter Battery Cont. Power	30kW	<b>35kW</b>	8kW - 2P Only
Voltage / Phases	120/208V-3P	120/208V-3P	120/208V-3P
Grid Bypass	<b>200A</b>	No	50A
PV DC Coupling MPPTs	<b>4 x 36A</b>	No	4
MPPT Arc Fault Detection	<b>Yes</b>	No	No
PV DC Voltage Range	<b>150V-500V</b>	No	360V-420V
AC Coupling to Existing Inv.	Yes	Yes	Yes
Parallel Stacking	<b>Yes</b>	Only 3	Only 2
AC Generator Charging	<b>Yes</b>	No	No
Simult. AC & DC Coupling	<b>Yes</b>	No	No
Battery Voltage Inputs	<b>2 x 150V-550V</b>	1 x 380V-820V	1 x 140V-280V
Grid Failure UPS Transf. Time	<b>5ms</b>	No	1000ms

Any Questions? Let us Help!

**+1-972-575-8875**



[sales@sol-ark.com](mailto:sales@sol-ark.com)



[www.sol-ark.com](http://www.sol-ark.com)



# 30K-3P-208V Spec Sheet



## Battery (optional) Output Power 30,000W

Type   Number of Inputs	Li-Ion   2 Inputs
Nominal DC Input	> 300V
Capacity	50 — 9900Ah
Voltage Range	150V—500V
Continuous Battery Charging Output	100A (50A per Input)
Charging Curve	3-Stage w/ Equalization
Grid to Batt Charging Efficiency	96.0%
Battery Fuse	Integrated
Current Shunt for Accurate % SOC	Integrated
External Gen Start Based on Voltage or %SOC	Integrated
Communication to Lithium Battery*	CanBus & RS485

\*ONLY works with Li-Batteries under Closed-Loop Communications

## General

Dimensions (H x W x D)	35.2" x 20.8" x 11.6"
Weight	172 lbs
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-40~60°C, >45°C Derating
Installation Style	Wall-Mounted
Wi-Fi & LAN Communication	Included
Standard Warranty (verified by HALT Testing)	10 years

## Solar Input Power 39,000W

Max Allowed PV Power	39,000W
Max PV Power Delivered to Battery & AC Outputs	30,000W
Max DC Voltage (Voc)	500V @ 36A
MPPT Voltage Range	170-500V
Starting Voltage	150V
Number of MPPT	4
Max Solar Strings Per MPPT	2
Max DC Current per MPPT (Self Limiting)	36A
Max AC Coupled Input into the GEN terminal (Micro / String Inverters)	54kW w/ no PV <sub>DC</sub> ** 30kVA w/ 39kW PV <sub>DC</sub>

\*\* Software Limitation: 180A x 120V x 3

## AC Output Power 30,000W On & Off-Grid

Connections	120V / 208V Three Phase
Continuous AC Power with PV	30,000W 83.4A (208V)
Continuous AC Power from Batteries	30,000W 83.4A (208V)
Surge AC Power   7 sec	45,000VA   125A (208V)
Parallel Stacking	Yes—Up to 12
Frequency	60/50Hz
Continuous AC Power with Grid or Generator	72,000W 200A L-L (208V) 36,000W 200A L-N (120V)
CEC Efficiency	96.5% (Peak 97.5%)
Idle Consumption Typical—No Load	60W
Sell Back Power Modes	Limited to Household/Fully Grid-Tied
Design (DC to AC)	Transformerless DC
Response Time (Grid-Tied to Off-Grid)	5ms
Power Factor	+/- 0.8 - 1.0

## Protections & Certifications

Electronics Certified Safety by TÜV Rheinland to NEC & UL Specs	Yes
Grid Sell Back — UL 1741-2021 3rd Edition (incl UL1741SB), CSA C22.2, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020, UL1699B Arc-Fault Circuit-protection Type 1	Yes
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 II