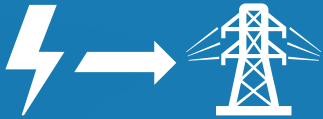
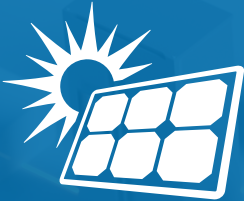


30K-3P-208V Key Features

30kW Max Output



AC & DC Coupling



200A 5ms Transfer Switch

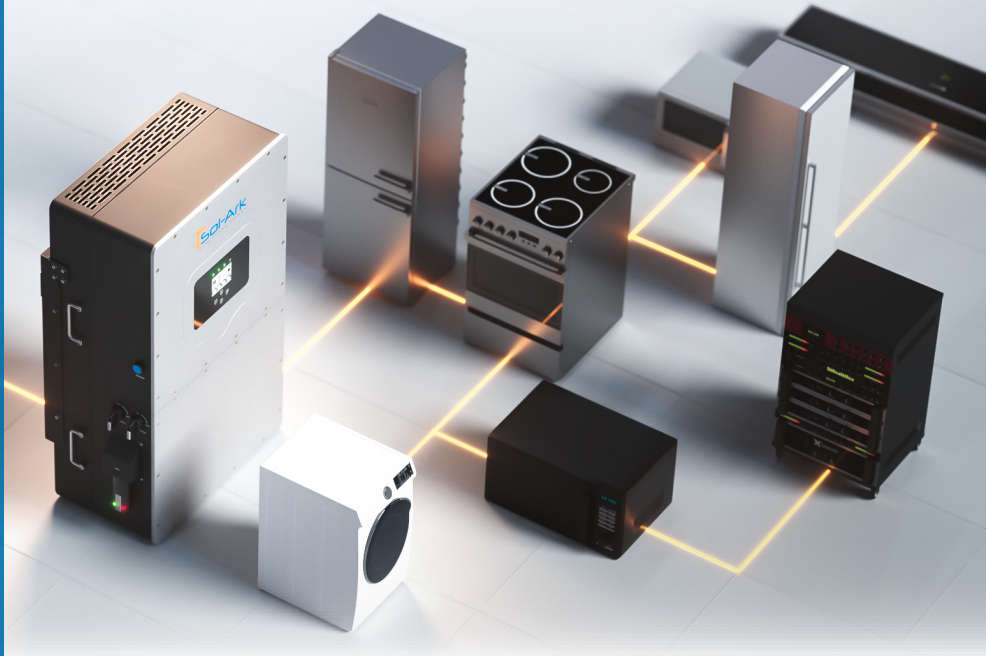


USA-Based Support
& Data Servers



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

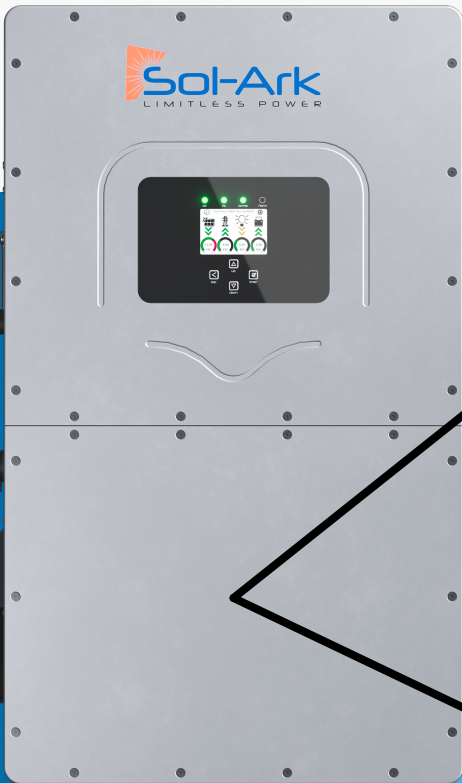
Sol-Ark Excels at Customer Support

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

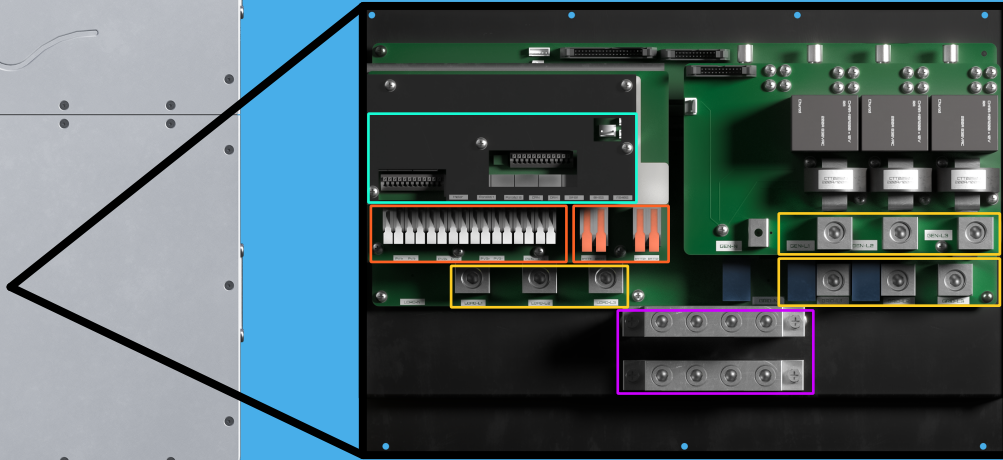
We can solve virtually any problem without a site visit.

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	35kW	11.4kW
Inverter Battery Cont. Power	30kW	35kW	8kW - 2P Only
Voltage / Phases	120/208V-3P	120/208V-3P	120/208V-3P
Grid Bypass	200A	No	50A
PV DC Coupling MPPTs	4 x 36A	No	4
MPPT Arc Fault Detection	Yes	No	No
PV DC Voltage Range	150V-500V	No	360V-420V
AC Coupling to Existing Inv.	Yes	Yes	Yes
Parallel Stacking	Yes	Only 3	Only 2
AC Generator Charging	Yes	No	No
Simult. AC & DC Coupling	Yes	No	No
Battery Voltage Inputs	2 x 150V-550V	1 x 380V-820V	1 x 140V-280V
Grid Failure UPS Transf. Time	5ms	No	1000ms

Any Questions? Let us Help!

+1-972-575-8875



sales@sol-ark.com



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

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 _{DC} ** 30kVA w/ 39kW PV _{DC}

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

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

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