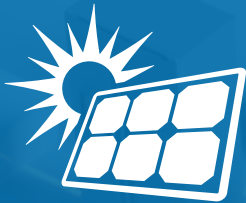


60K-3P-480V Key Features

60kW Max Output



AC & DC Coupling



200A 5ms Transfer Switch



USA-Based Support
& Data Servers



Sol-Ark 60K-3P-480V

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

60K-3P

480V



The best value inverter for native 480V Three Phase Applications.

Perfect for all manners of commercial and industrial projects.

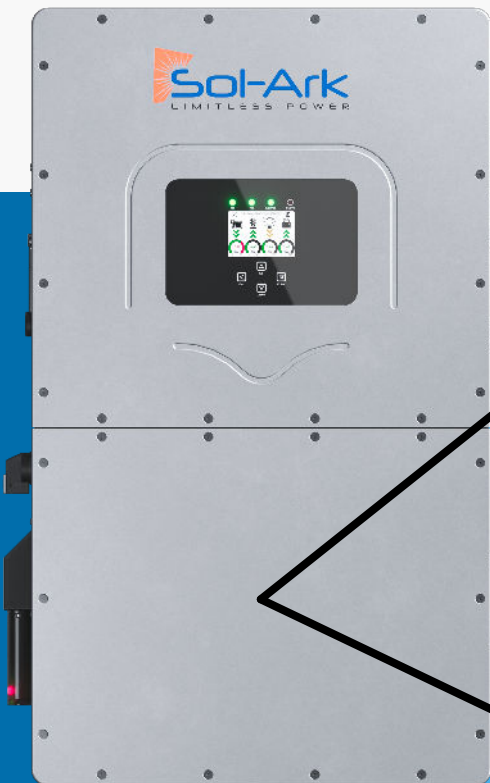
Sol-Ark Excels at Customer Support

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

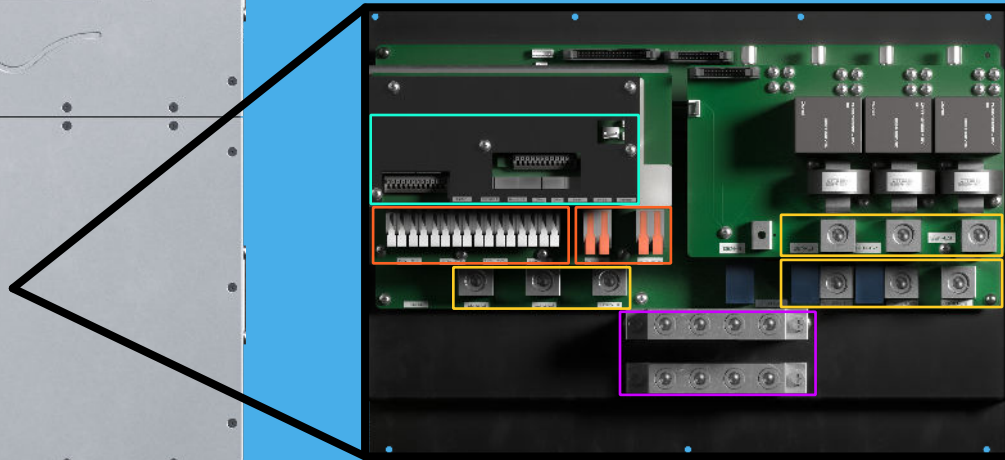
We can solve virtually any problem without a site visit.

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 60K-3P-480V	Sun Grow SC60HV	Sinexel PWS2-30-NA + PDS1-45K	OzTek OZPCS-RS40
MSRP Price	\$19,500	N/A	~\$14,000	~\$11,500
Inverter AC Cont. Power	60kW	60kW	30kW	40kW
Inverter Battery Cont. Power	60kW	60kW	30kW	40kW
Voltage / Phases	277/480V-3P	277/480V-3P	277/480V-3P	277/480V-3P
Grid Bypass	200A	No	No	No
PV DC Coupling MPPTs	4 x 36A	No	3 x 32A	No
MPPT Arc Fault Detection	Yes	No	Optional	No
PV DC Voltage Range	200V-1000V	No	520V-800V	No
AC Coupling to Existing Inv.	Yes	Yes	Yes	Yes
Parallel Stacking	Yes	Yes	Only 2	Only 3
AC Generator Charging	Yes	No	No	No
Simult. AC & DC Coupling	Yes	No	No	No
Battery Voltage Inputs	2 x 160V-800V	1 x 700V-1500V	1 x 250V-520V	1 x 330V-820V
Grid Failure UPS Transf. Time	5ms	No	No	No

Any Questions? Let us Help!



+1-972-575-8875



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www.sol-ark.com



60K-3P-480V Spec Sheet



Solar Input Power 78,000W	
Max Allowed PV Power	78,000W
Max PV Power Delivered to Battery & AC Outputs	60,000W
Max DC Voltage (Voc)	1,000V @ 36A
MPPT Voltage Range	200-850V
Starting Voltage	180V
Number of MPPT	4
Max Solar Strings Per MPPT	2
Max DC Current per MPPT (Self Limiting)	36A
Max AC Coupled Input (Micro / String Inverters)	120kVA w/ no PV ** 60kVA w/ 78kW PVdc

** Software Limitation: 180A x 277V x 3

AC Output Power 60kW On-Grid & Off-Grid	
Connections	277V / 480V Three Phase
Continuous AC Power with PV	60,000W 72.2A (480V)
Continuous AC Power from Batteries	60,000W 72.2A (480V) TBD
Surge AC Power 7 sec	120,000VA 144.4A x 277V x 3
Parallel Stacking	Yes - Up to 12
Frequency	60/50Hz
Continuous AC Power with Grid or Generator	102,000W 160A L-N (277V)
CEC Efficiency	96.5% (Peak 97.5%)
Idle Consumption Typical—No Load	TBD
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

Battery (optional) Output Power 60,000W	
Type Number of Inputs	Li-Ion 2 Inputs
Nominal DC Input	>600V
Capacity	50 — 9,900Ah
Voltage Range	160V ~ 800V
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

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

Protections & Certifications	
Electronics Certified Safety by SGS Labs to NEC & UL Specs - NEC 690.4B & NEC 705.4/6	pending
Grid Sell Back — UL1741-2010/2018, IEE-E1547a-2003/2014, FCC 15 Class B, UL1741SB, CA Rule 21, HECO Rule 14H	pending
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