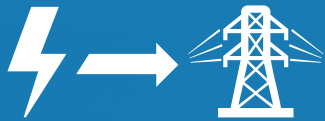
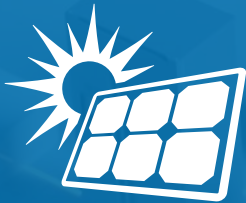


## 60K-3P-480V Key Features

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.

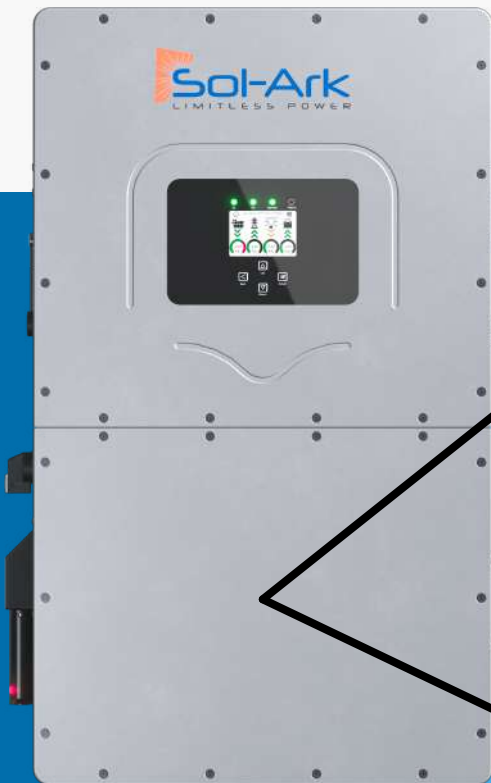
### Sol-Ark Excels at Customer Support

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

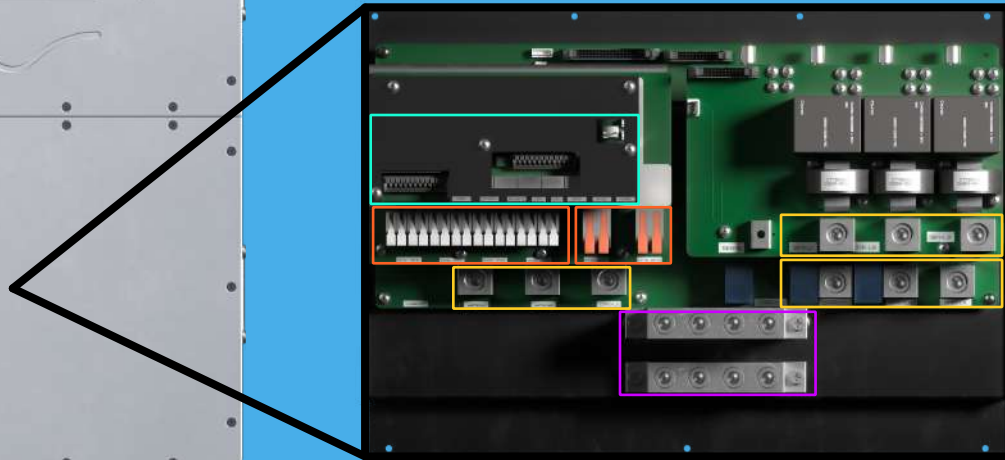
We can solve virtually any problem without a site visit.

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	<b>60kW</b>	<b>60kW</b>	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	<b>200A</b>	No	No	No
PV DC Coupling MPPTs	<b>4 x 36A</b>	No	3 x 32A	No
MPPT Arc Fault Detection	<b>Yes</b>	No	Optional	No
PV DC Voltage Range	<b>200V-1000V</b>	No	520V-800V	No
AC Coupling to Existing Inv.	Yes	Yes	Yes	Yes
Parallel Stacking	<b>Yes</b>	<b>Yes</b>	Only 2	Only 3
AC Generator Charging	<b>Yes</b>	No	No	No
Simult. AC & DC Coupling	<b>Yes</b>	No	No	No
Battery Voltage Inputs	<b>2 x 160V-800V</b>	1 x 700V-1500V	1 x 250V-520V	1 x 330V-820V
Grid Failure UPS Transf. Time	<b>5ms</b>	No	No	No

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)



# 60K-3P-480V Spec Sheet



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

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

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 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

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