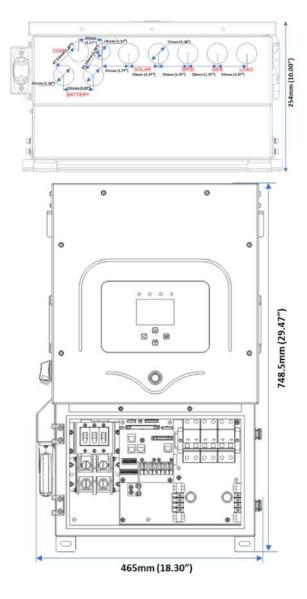
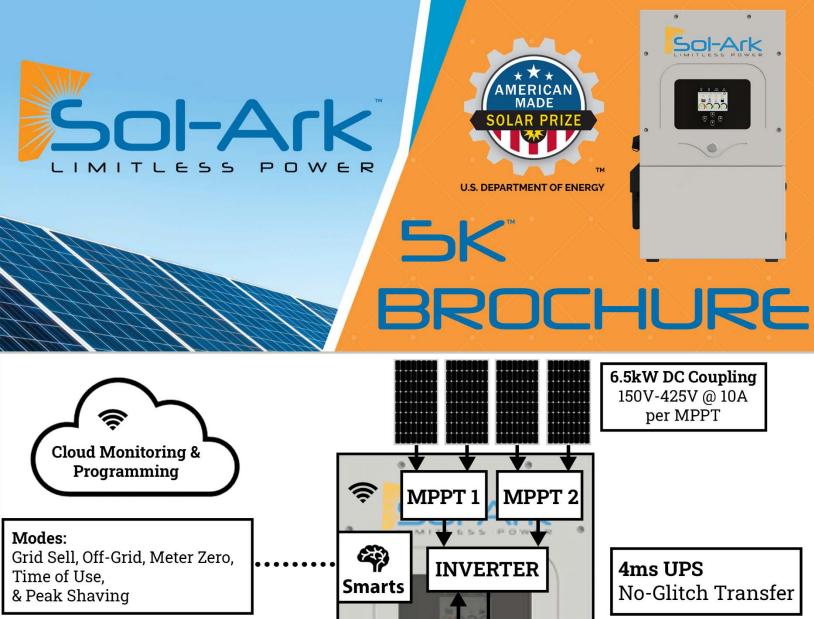


Sol-Ark-5K-48-ST Spe	ecifications			
Solar Output Power 6500W				
Max allowed PV Power	3250W+3250W = 6,500W			
Max PV power delivered to Battery & AC outputs	6500W			
Max DC voltage	500V			
MPPT voltage range	150-425V			
Starting voltage	125V			
Number of MPPT	2			
Max Solar Strings per MPPT	2			
Max DC current per MPPT (self limiting)	10A/10A			
Max AC Coupled Input (Micro/String Inverters)	9,600W / 9,600W			
AC Output Power 5000W On Grid & 500				
Connections	120/240/208V split phase			
	5000W 20.8A L-L (240V)			
Continuous AC power to Grid (On-Grid)	3500W 29.1A L-N (120V)			
	5000W 20.8A L-L (240V)			
Continuous AC power to Load (Off-Grid)	3500W 29.1A L-N (120V)			
Surge AC power 10sec Surge AC power 100ms	16000VA L-L (240V) 25000VA L-L (120V)			
Frequency	60/50Hz			
rrogaciey	15120W 63A L-L (240V)			
Continuous AC power with Grid or Generator	7560W 63A L-N (120V)			
CEC Efficiency	96.5% (Peak 97.5%)			
Idle Consumption typical – no load	60W			
	Limited to Household or			
Sell back power modes	Full Grid-Tied			
Design (DC to AC)	Transformerless DC			
Response Time (Grid-Tied to Off-Grid)	4ms			
Power Factor	+-0.9 - 1.0			
Battery (optional) Output Power 5000	W			
Туре	Lead-Acid or Li-Ion			
Nominal DC Input	48V			
Capacity	50 – 9900Ah			
Voltage Range	43.0 - 63.0V			
Continuous Battery charging output	120A			
Charging curve	3-stage w/ equalization			
Grid to Battery Charging Efficiency	96.0%			
External temperature sensor	included			
Current shunt for accurate % SOC	integrated			
External Generator Start based on voltage or % SOC	100 176			
Communication to L ithium battery	CanBus & RS485			

General				
Dimensions (H x W x D)	30.0" x 18.30" x 10.00"			
Weight	78 lbs			
Enclosure	NEMA Type 3R			
Ambient Temperature (3 variable speed fans)	-25 to 55C, >45C derating			
Display	Color touch screen			
Wi-Fi Communication (monitoring or SW updates)	included			
Snap on sensors for limited selling to Household	included			
Standard Warranty (verified by HALT testing)	5 years			

Electronics certified safety by SGS labs to NEC		
& UL specs – NEC 690.4B & NEC 705.4/6	Yes	
Grid Sell Back – UL1741-2010/2018,		
IEEE1547a-2003/2014, FCC 15 class B,		
UL1741SA, CA Rule 21, HECO Rule 14H	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/		
UL1699B	integrated	
PV input lightning protection	integrated	
AC input/output 63A breakers	integrated	
Battery breaker / disconnect	integrated	
User wiring enclosure w/ ¾" & 1" knock-outs	integrated	





RSD/Emergenecy Stop, External CT Sensors, Parallel Comms/Battery Comms, Auto Gen Start

> **Battery Agnostic** 48V Nominal & at least 50Ah

Sensors Charger

Prioritize Necessities & Run Luxuries With Less

Smart Load

Gen Breaker Up to 12kW **Generator Input**

AC Coupling 9.6kW Output

Grid or Generator 63A Passthrough

Off-Grid Loads 5kW Continuous 16kW Peak





Highest Rating on Energy Sage

Nothing but positive reviews on EnergySage. We have a long track record of satisfied cstomers, as well as customers that have switched from other big names to go with our products instead.



Install Simplicity

Unlike many hybrid inverters, our system is an all-in-one unit. You don't have to piece together multiple parts to get basic functions. Ours does it all, does it better, and does it with simplicity.

7 Day/Week Engineering & Customer Support

Sol-Ark beats all competition at customer support.
We have engineers ready to assist with all questions, diagnosis, homeowner support, and remote unit management. We can solve virtually any problem without a site visit.

			7 1		
Feature	Sol-Ark 5K	Tesla Powerwall 2	Generac PWRcell	SolarEdge/LG EnergyHub	Enphase Encharge 10
Comparison	All-In-One Hybrid,	Entire home	Entire home	Entire home	Entire home
Install Simplicity	Solar Batt. Calculator Some load mgmt	transfer Switch, No load mgmt	transfer switch, All- In-One Hybrid, Some load mgmt	transfer switch, No load mgmt	transfer switch, No load mgmt
7 day single support line	Yes	No	Yes	No	Yes
Peak Current (Off Grid)	63A	30A	50A	30A	24.6A
Continuous Power (On Grid)	5kW	5kW	7.6kW	5kW	3.84kW
Usable Battery Energy	20kWh	13.5kWh	18kWh	9.3kWh	10.5kWh
Battery Life Span	15 Years (LFP)	10 Years (NMC Active Cooling)	10 Years (NMC Active Cooling)	7 Years (NMC Passive Cooling)	15 Years (LFP)
PV to Batt to AC Efficiency	93%	87%	85%	82%	87%
Charging Batt from Generator	Yes	No	No	No	No
Fleet Mgmt Tool w/ Remote Setup	Yes	No	Yes	Yes	Yes