



SOL-ARK 8K

More Affordable:
5-15% less solar panels &
5-20% less batteries than others!

World's Most Efficient Battery Inverter



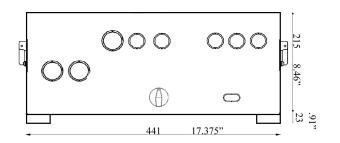


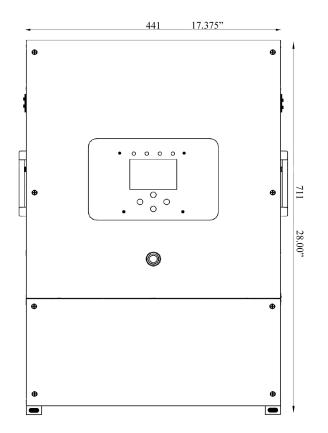


Sol-Ark 8K: Home Energy Product of 2018

FINALIST

Sol-Ark-8K-48-ST Specifications Solar		
Max allowed PV Power per MPPT	5500W	
Max DC voltage	500V	
MPPT voltage range	150-425V	
Starting voltage	175V	
Number of MPPT	2	
Solar Strings per MPPT	2	
Max DC current per MPPT	18A (self limiting)	
AC Output		
Connections	120/240V split phase	
	8000W 33A L-L (240V)	
Continuous AC power on Solar or Battery	4000W 33A L-N (120V)	
on sales y	20,000VA L-L (240V)	
Surge AC power 5sec	10,000VA L-N (120V)	
Frequency	60/50Hz	
· · ·	12000W 50A L-L (240V)	
Continuous AC power with Grid or Generator	6000W 50A 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)	2ms	
Battery (optional)		
Туре	Lead-Acid or Li-Ion	
Nominal DC Input	48V	
Capacity	90 – 2000Ah	
Voltage Range	41.0 – 61.0V	
Continuous Battery charging output	190A	
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	integrated	
Communication to Lithium battery	CanBus & RS485	
General		
Dimensions (H x W x D)	28.0" x 17.375" x 9.37"	
Weight	75 lbs	
Enclosure	NEMA type 1 (Indoor Use)	
Ambient Temperature (4 variable speed fans)	-25 to 55C, >45C derating	
Display	Color touch screen	
Wi-Fi Communication (monitoring or SW updates)	integrated	
Snap on sensors for limited selling to Household	included	
Standard Warranty	5 years	
Optional Extended Warranty	10 years	





Protection & Certifications		
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	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 50A breakers	integrated	
Battery overcurrent fuse	integrated	
User wiring enclosure w/ ¾" & 1" knock-outs	integrated	
Solar Flare/EMP Hardened to 2015 MIL-STD-		
461G (Independently tested June 2018)	optional	