SOL-ARK

0

F +

TACKABL

E

HYBR-D

Sol-Ark

e Haway Discover Warning electric shock PV Disconnect Below 1 LC CI LC CONT Discover CI LC CI Di LC CI



GRID SELL

+Time of Use



COMMERCIAL / MEDICAL No Glitch Transfer



MILITARY Cage Code: 7U4P4



OFF-GRID Battery Agnostic



0

RETRO-FIT AC Coupling

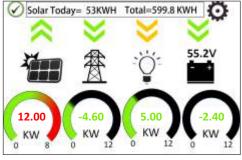
www.Sol-Ark.com

Sales@Sol-Ark.com

972-575-8875

STACKABLE, No Glitch, ALL-IN-ONE HYBRID





Color Touch Display

Two Built-In 500V Charge Controllers

1 - 6 PV Strings **Battery Disconnect 48V Battery Input Battery Temp Sensor Auto-Generator Start Rapid Shut Down Signal Current Sensors Included Battery Communication PV** Disconnect Wiring Knockouts & WiFi 50A Breakers: EMP HARDENED 150KV/M AC In/Out. AC Load Out. AC Gen In/Smart Load Out



Limitless

PARALLEL STACKING, GRID SELL, METER ZERO, TIME OF USE, SMART LOAD, AC COUPLING, PEAK SHAVING. 20 kW PEAK POWER

Highly Accelerated Life Testing

PROVEN TO LAST WELL BEYOND THE STANDARD 10 YEAR WARRANTY

Engineered, Tested, Serviced in U.S.A

TALK TO A US BASED ENGINEER 7 DAYS A WEEK

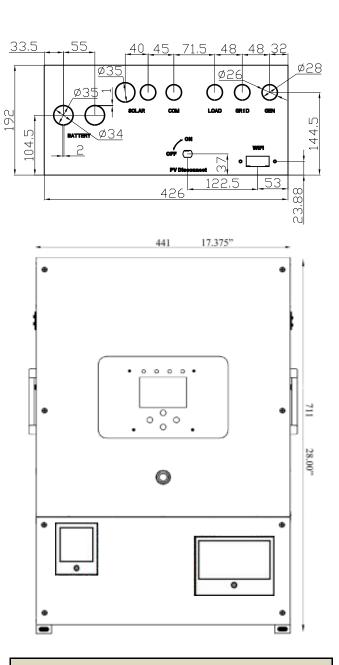
No Glitch Switch (4ms)

FASTEST TRANSFER TIME IN THE INDUSTRY

Free Remote Monitoring / Programming



Sol-Ark-12K-P Specifications		
Solar Output Power 12000W		
Max allowed PV Power	8250W+8250W = 16,500W	
Max PV power delivered to Battery & AC outputs	12000W	
Max DC voltage	500V@18A, 450V@20A	
MPPT voltage range	150-425V	
Starting voltage	175V	
Number of MPPT	2	
Solar Strings per MPPT	2 w/o fuses, 3 w/ fuses	
Max DC current per MPPT (self limiting)	20A@300V, 18A@400V	
Max AC Coupled Input (Micro/String Inverters)	7,600W	
AC Output Power 9600W On Grid & 800	•	
Connections	120/240/208V split phase	
Continuous AC power to Grid (On Grid)	9600W 40A L-L (240V) 4800W 40A L-N (120V)	
	8000W 40A L-L (240V)	
Continuous AC power to Grid (Off Grid)	4800W 40A L-N (120V)	
Surgo AC power Scor	20,000VA L-L (240V)	
Surge AC power 5sec Parallel Stacking	10,000VA L-N (120V)	
Frequency	2-3 (240V), 3 or 6 (208V) 60/50Hz	
	12000W 50A L-L (240V)	
Continuous AC power with Grid or Generator	6000W 50A L-N (120V)	
CEC Efficiency	96.0% (Peak 97.0%)	
Idle Consumption typical – no load	60W	
Call back new on mades	Limited to Household or	
Sell back power modes	Full Grid-Tied	
Design (DC to AC)	Transformer less DC	
Response Time (Grid-Tied to Off-Grid)	4ms	
Power Factor	+-0.9 - 1.0	
Battery (optional) Output Power 8000V		
Туре	Lead-Acid or Li-Ion	
Nominal DC Input	48V	
Capacity	90 – 2000Ah	
Voltage Range	43.0 – 59.0V	
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	77 lbs	
Enclosure	NEMA type 1 (Indoor Use)	
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	



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