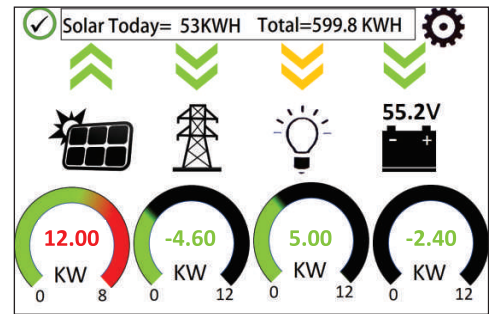


STACKABLE, No Glitch, ALL-IN-ONE HYBRID



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:

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 & 8000W Off Grid

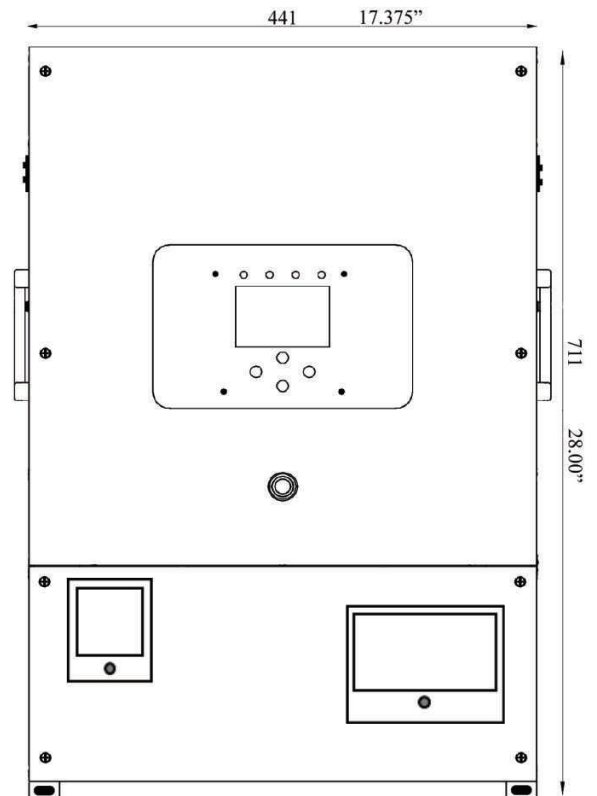
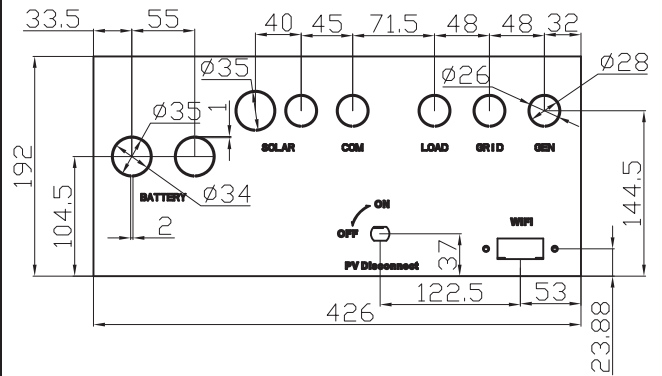
Connections	120/240/208V split phase
Continuous AC power to Grid (On Grid)	9600W 40A L-L (240V) 4800W 40A L-N (120V)
Continuous AC power to Grid (Off Grid)	8000W 40A L-L (240V) 4800W 40A L-N (120V)
Surge AC power 5sec	20,000VA L-L (240V) 10,000VA L-N (120V)
Parallel Stacking	2-3 (240V), 3 or 6 (208V)
Frequency	60/50Hz
Continuous AC power with Grid or Generator	12000W 50A L-L (240V) 6000W 50A L-N (120V)
CEC Efficiency	96.0% (Peak 97.0%)
Idle Consumption typical – no load	60W
Sell back power modes	Limited to Household or 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 8000W

Type	Lead-Acid or Li-Ion
Nominal DC Input	48V
Capacity	90 – 2000Ah
Voltage Range	43.0 – 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	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
Standard Warranty (verified by HALT testing)	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, 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/ 3/4" & 1" knock-outs	integrated
Solar Flare/EMP Hardened to 2015 MIL-STD-461G (Independently tested June 2018)	optional