Stackable LiFePo4 Battery System

Smaller Footprint
higher energy density benefit from latest LFP technology

Expandable
Module design
Maximum 5.12kwh*10S*6P

Monitor
Real-time monitoring of battery charging and discharging, online system updates and maintenance

Compatible with:

Deye Afore KOYOE
GOODWE SOFAR
solis MEGAREVO ATESS

Stackable LiFePo4 Battery System

Battery		SKU	EAN
15.36KW	5.12 x 3	120023	3800170224285
20.48KW	5.12 x 4	120024	3800170224292
25.6KW	5.12 x 5	120025	3800170224308
30.72KW	5.12 x 6	120026	3800170224315
35.84KW	5.12 x 7	120027	3800170224322
40.96KW	5.12 x 8	120028	3800170224339

Technical Data

Technical specification	15KWH	20KWH	25KWH	30KWH	35KWH	40KWH
Installation Mode	Stackable					
Battery Type	LifePO4(LFP)					
Module Energy(kWh)	5.12					
Module Nominal Voltage(V)	51.2					
Module Capacity(Ah)	100					
System Model	OHS15K-100	OHS20K-100	OHS25K-100	OHS30K-100	OHS35K-100	OHS40K-100
Battery Module Qty InSeries(Optional)	3	4	5	6	7	8
System Nominal Voltage(V)	153.6	204.8	256.0	307.2	358.4	409.6
System Nominal Capacity(KWh)	15.36	20.48	25.60	30.72	35.84	40.96
Usable Capacity(KWh)	12.29	16.38	20.48	24.58	28.67	32.77
Dimension (mm)	590*420*698	590*420*849	590*420*1000	590*420*1151	590*420*1302	590*420*1453
Weight (Kg)	161.4	207.0	252.6	298.2	343.8	389.4
Recommend Charge/Discharge Current (A)	40					
Communicaiton	CAN					
Altitude	⩽2000m					
Cycle Life	25±2°C,0.5C/0.5C,EOL70%⩾6000					
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature					
SOC	Intelligent algorithm					
Working Temperature	0℃~45℃ Charge -10℃ ~55℃ Disharge					
Storage Temperature	0~35℃					

1. DC Usable Energy, test conditions: 80% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.

System Components

Model	Description
OHS-HV100	High voltage battery cluster control box

SKU: 12151 EAN: 3800170224254

Operating Voltage	120 ~ 750Vdc
Nominal Charge/Discharge Current	40A
Max Charge/Discharge Current	50A
Operating Temperature Range	-10~55°C
Ingress Protection	IP65
Dimension (W/D/H)	590*420*165 mm
Weight Approximate	16.1kg

OH-5K	LiFePo4 Battery Module

SKU: 12002 EAN: 3800170224261

Battery Type	LiFePO4(LFP)
Nominal Voltage	51.2Vdc
Rated Capacity	100Ah
Rated Energy	5.12kWh
Nominal Charge/Discharge Current	40A
Peak Discharge Current	50A
Charge Temperature	0~45°C
Discharge Temperature	-10°C ~ 55°C
Storage Temperature	0°C ~ 35°C
Ingress Protection	IP65
Dimension (W/D/H)	590*420*194mm
Weight Approximate	45.6kg

OH-Base	Battery module base

SKU: 12152 EAN: 3800170224278

Dimension (W/D/H)	590*420*80mm
Weight Approximate	8.5kg

COM Cable	Standard 2-meter commumication cable connected to the external device

Cable	Standard 2-meter power cable connected to the external PCS

25mm² Cable

solis

GINLONG TECHNOLOGIES CO.,LTD.

S6-EH3P(5-10)K2-H

Solis Three Phase High Voltage Energy Storage Inverters

Features:

- Industry leading 50A/10kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life

Models:

S6-EH3P5K2-H / S6-EH3P6K2-H

S6-EH3P8K2-H / S6-EH3P10K2-H

360º View

• Monitoring Portal – www.soliscloud.com or SolisCloud App • Compatible Batteries – Check online at www.solisinverters.com

DATASHEET

S6-EH3P(5-10)K2-H

Models	5K	6K	8K	10K
Input DC (PV side)				
Recommended max. PV array size	10 kW	12 kW	16 kW	20 kW
Max. usable PV input power	8 kW	9.6 kW	12.8 kW	16 kW
Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	160 V			
MPPT voltage range	200-850 V			
Max. input current	16 A / 16 A			
Max. short circuit current	24 A / 24 A			
MPPT number/Max. input strings number	2/2			
Battery				
Battery type	Li-ion			
Battery voltage range	120-600 V			
Max. charge / discharge power	5 kW	6 kW	8 kW	10 kW
Max. charge / discharge current	25 A		50 A	
Communication	CAN/RS485			
Output AC (Grid side)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	5 kVA	6 kVA	8 kVA	10 kVA
Rated grid voltage	3/N/PE, 380 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
Max. output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			
Input AC (Grid side)				
Max. input power	7.5 kW	9 kW	12 kW	15 kW
Rated input current	11.4 A	13.8 A	18.2 A	22.8 A
Rated input voltage	3/N/PE, 380 V / 400 V			
Rated input frequency	50 Hz / 60 Hz			
Output AC (Back-up)				
Rated output power	5 kW	6 kW	8 kW	10 kW
Max. apparent output power	8 kVA, 60 sec	9.6 kVA, 60 sec	12.8 kVA, 60 sec	16 kVA, 60 sec
Back-up switch time	<10 ms			
Rated output voltage	3/N/PE, 380 V / 400 V			
Rated frequency	50 Hz / 60 Hz			
Rated output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A
THDv (@linear load)	<2%			
Efficiency				
Max. efficiency	96.5%	97.0%	97.5%	97.9%
EU efficiency	96.8%	97.1%	97.4%	97.5%
BAT charged by PV Max. efficiency	98.4%	98.5%	98.2%	98.3%
BAT charged/discharged to AC Max. efficiency	97.3%	97.3%	97.5%	97.5%
Protection				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Short circuit protection	Yes			
Integrated AFCI 2.0	Optional			
Integrated DC switch	Yes			
DC reverse-polarity protection	Yes			
PV over voltage protection	Yes			
Battery reverse protection	Yes			
General Data				
Dimensions (W*H*D)	600*500*210 mm		600*500*230 mm	
Weight	27.6 kg		30.2 kg	
Topology	Transformerless			
Self-consumption (night)	<25 W			
Operating ambient temperature range	-25 ~ +60°C			
Relative humidity	0-95%			
Ingress protection	IP66			
Cooling concept	Natural convection			
Max. operation altitude	4000 m			
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/VFR:2019, RD 1699/RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA			
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
Features				
PV connection	MC4 connector			
Battery connection	Quick connection plug			
AC connection	Quick connection plug			
Display	LED + Bluetooth + APP			
Communication	CAN, RS485, Optional: Wi-Fi, Cellular, LAN			

Tier1

BloombergNEF

YH SUNPRO POWER

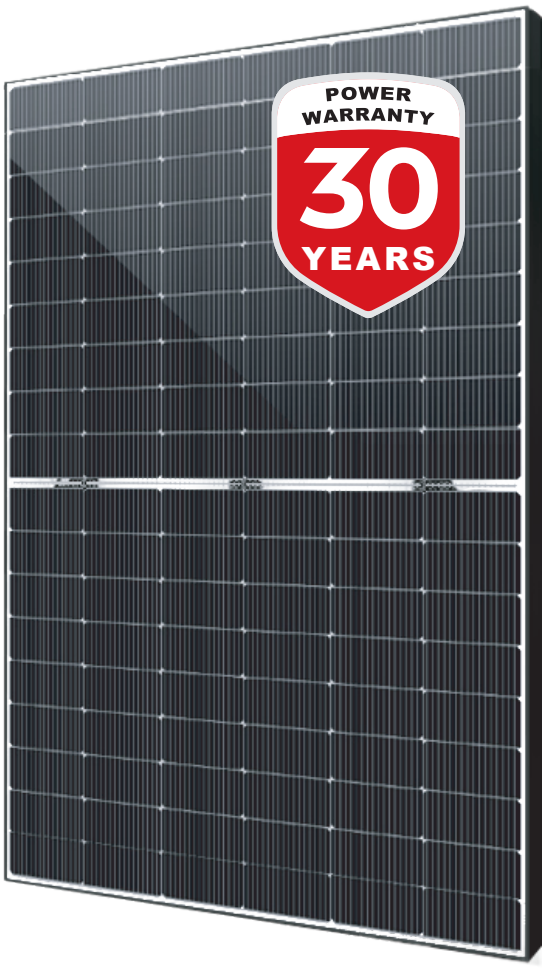
CLEAN ENERGY COUNCIL PV CYCLE ISO 9001 ISO 14001 SA 8000 ISO 45001 OHSAS 18001

M10 TOPCON BIFACIAL

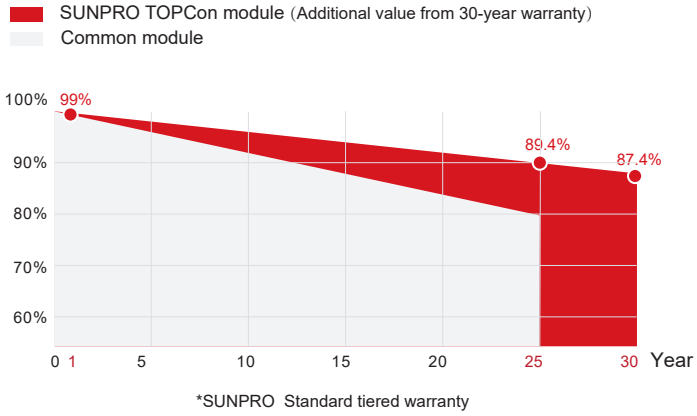
SPDGxxx-N108M10

410~440W

- Double glass
- Black frame
- Bifacial Transparent



25 Yr quality guarantee | 30 Yr power warranty



*SUNPRO Standard tiered warranty

WARRANTY & GUARANTEE

Linear output power guarantee
25 years: 89.4% power output
30 years: 87.4% power output

WITHSTAND STRONG

Snow load 5400Pa
Wind load 2400Pa

PID RESISTANCE

Power positive tolerance：0~+5W.
The attenuation probability of PID phenomenon is minimized through battery production technology optimization and material control

R&D AND PRODUCTION

Advanced production line. Bifaciality>80%,effectively improves backside power generation.The leading solar cell cutting process and multi busbar design with SUNPRO Technology.

HIGH EFFICIENCY

N-type , Components have better reliability and lower LID/LETID attenuation. Efficiency can reach 22.53%. Excellent low light performance. Higher power output under the conditions of haze, overcast, etc.

YHSUNPRO POWER

Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m² ,Cells Temperature25)

Typical type	410W	415W	420W	425W	430W	435W	440W
Max power(Pmax)	410	415	420	425	430	435	440
Max power voltage(Vmp)	31.25	31.37	31.49	31.64	31.79	31.94	32.09
Max power current(Imp)	13.12	13.23	13.34	13.44	13.53	13.62	13.72
Open circuit voltage(Voc)	37.94	38.04	38.13	38.24	38.34	38.43	38.53
Short circuit current(Isc)	13.85	13.96	14.07	14.16	14.25	14.34	14.43
Module Efficiency(%)	21.00	21.25	21.51	21.76	22.02	22.28	22.53
Max system voltage	DC 1500V (TÜV,UL)						
Maximum Series Fuse Rating	30A						

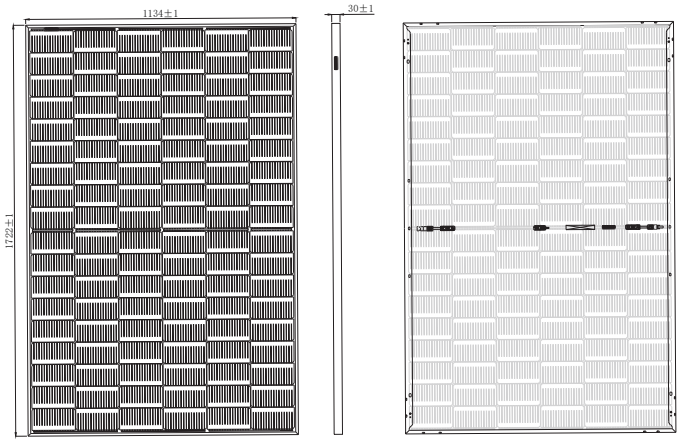
Electrical Characteristics with 15% Rear Side Power Gain
(Take 420W as an example)

Front power Pmax/W	410W	415W	420W	425W	430W	435W	440W
Total power Pmax/W	471.50	477.25	483.00	488.75	494.50	500.25	506
Max power voltage(Vmp)	31.25	31.37	31.49	31.64	31.79	31.94	32.09
Max power current(Imp)	15.09	15.21	15.34	15.45	15.56	15.66	15.77
Open circuit voltage(Voc)	37.94	38.04	38.13	38.24	38.34	38.43	38.53
Short circuit current(Isc)	15.93	16.05	16.18	16.28	16.39	16.49	16.59

Electrical parameters at NMOT test conditions
(Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s)

Typical type	410W	415W	420W	425W	430W	435W	440W
Max power(Pmax)	308	312	316	320	324	325	329
Max power voltage(Vmp)	29.4	29.5	29.6	29.7	29.9	29.80	29.90
Max power current(Imp)	10.49	10.58	10.67	10.75	10.84	10.91	11.00
Open circuit voltage(Voc)	35.7	35.8	35.9	36	36.1	36.00	36.10
Short circuit current(Isc)	11.16	11.25	11.34	11.41	11.48	11.56	11.63

DIMENSIONS AND STRUCTURE



Mechanical Data

Dimensions	1722x1134x30mm
Weight	23.3kg
Glass	(F) 2.0mm ultra clear embossed double layer colorless glass (B) 2.0mm semi-tempered glass
Output cables	4mm² , symmetrical lengths 1100mm
Connectors	MC4 compatible IP68
Cell type	Mono-Crystalline, N type Bifacial, 182x91mm
Number of cells	108cells(Half-Cell)

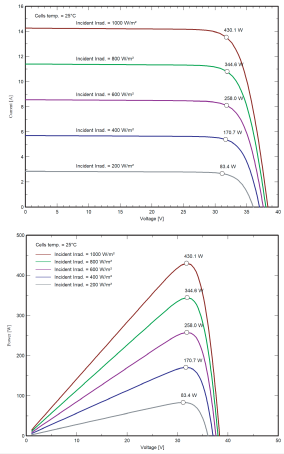
Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.045% / ℃
Temp.Coeff.of Voc(TK Voc)	-0.25%/℃
Temp.Coeff.of Pmax(TK Pmax)	-0.30%/℃
Operating temperature	-40~+85 ℃
Normal operating cell temperature	42±2℃

Packing Configuration

Container	40'HQ
Pieces per pallet	72
Pallets per container	13
Pieces per container	936

I-V CHARACTERISTICS AT DIFFERENT IRRADIATION



Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730, IEC 61701, IEC 62716, PPP 58042
System certs	ISO 9001, ISO14001, ISO45001
Certifications	TÜV, CE, CEC, UL, WEEE
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Power tolerance	0~+5W
Junction box	IP 68
Warranties	25 years product warranty and 30 years 87.4% of power

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