



All-In-One Pro (HV) (5-20) kW

FROM GRID TO HOME



ALL-IN-ONE PRO 5-20kW

Compared With Separate Installation



All-in-one after-sales service

- 10-year warranty. Replace new machines instead of repairing.*
- No need to worry about after-sales between inverters and batteries of different brands.

* For critical parts quality issues.

Saves **20%** space

- Integrated humanized design, removed redundant cables.
- Adds points to beauty and attractiveness.



20% reduction in installation time

- Stack installation with Plug & Play connection.
- Makes the installation process time-saving, cost-effective and worry-free.

Integrated AC Charger, Plug & Play

- Charging electric vehicles with clean energy, effectively save charging costs.



All-in-one Pro System Three Phase (HV) (10-20) kW

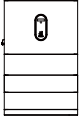
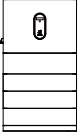
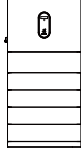

Type Designation	All-in-one P sys-10kW-TH PRO	All-in-one P sys-15kW-TH	All-in-one P sys-20kW-TH
PV (input)			
Max. recommended PV array power [Wp]	20000	30000	40000
Max. PV input voltage* [V]		1000	
Rated PV input voltage [V]		650	
Start-up input voltage [V]		150	
MPPT voltage range [V]		150-950	
No. of MPPT/Strings per MPPT	3 (2/1/1)		3 (2/2/1)
Max. PV input current [A]	64 (32/16/16)		80 (32/32/16)
Max. DC short-circuit current [A]	80 (40/20/20)		100 (40/40/20)
Battery			
Battery type	LiFePO4 Prismatic Cell		
Max. charge/discharge current [A]	50/50		
Battery voltage range [V]	100-800		
Nominal capacity range	15.36 kWh-46.08 kWh (5.12 kWh/100 Ah per module)		
Number of connectable modules	3-9 modules		
Backup (output)			
Rated output power (off-grid mode) [VA]	10000	15000	20000
Peak output power** (off-grid mode)	16800 W / 16800 VA, 10s	25500 W / 25500 VA, 10s	32000 W / 32000 VA, 10s
Max. output power (on-grid mode)	43000 W / 43000 VA		
Max. output current (on-grid mode) [A]	3*63		
Backup switching time [ms]	≤4		
Rated voltage [V]	3/N/PE, 220/380; 230/400; 240/415		
Frequency range [Hz]	50/60		
Total harmonic distortion (THDv, rated power, linear load) [%]	≤2		
Grid (input/output)			
Max. AC power from grid	43000 W / 43000 VA		
Rated AC output power [VA]	10000	15000	20000
Max. AC output power [VA]	10000	15000	20000
Max. AC output current [A]	15.2	22.8	30.3
Rated AC voltage [V]	3/N/PE, 220/380; 230/400; 240/415		
AC voltage range [V]	270-480		
Rated grid frequency [Hz]	50/60		
Grid frequency range [Hz]	45-55/55-65		
Total harmonic distortion (THDI, rated power) [%]	<3		
Power factor at rated power/ Adjustable power factor	> 0.99/0.8.leading to 0.8 lagging		
Efficiency			
Max. efficiency/European efficiency [%]	98.00/97.50	98.10/97.60	
Protection & Function			
Parallel*	Master-slave mode		
Surge protection	Type II, DC and AC		
Overvoltage category	II DC and III AC		
Protective class	Class I		
Grid monitoring	Yes		
DC reverse polarity protection	Yes		
Battery input reverse polarity protection	Yes		
Insulation monitoring	Yes		
AC short-circuit protection	Yes		
Residual current protection	Yes		
DC switch (PV)	Yes		
Over-heat protection	Yes		
AFCI	OPT		
General Data			
Topology (PV/Battery)	Transformerless		
Degree of protection	IP65		
Mounting method	Floor-standing		
Operating ambient temperature range [°C]	-25-60 (Derating above 45)		
Storage temperature [°C]	-20-45 (≤1 Month)/-20-25 (≤6 Months)		
Allowable relative humidity range [%]	5-95		
Cooling method	Natural convection		
Noise (Typical)	35 dB (A)		
Max. operating altitude [m]	2000		
Display	LED		
Communication	2*RS485/1*CAN/WLAN		
DI/DO	4*DI/2*DO/DRM0		
DC connection type	MC4 (PV, Max. 6 mm ²)		
AC connection type	Plug and play terminals (Grid / Backup, Max. 10 mm ²)		

* Input voltage exceeding the MPPT operating voltage range triggers inverter protection

** Can be reached only if PV and battery power is sufficient

*** Detail refer to inverters parallel configuration in User Manual

All-in-one Pro System Batteries (HV) (10.44-47) kWh

Type Designation	SieB-HP10K4-F	SieB-HP15K6-F	SieB-HP20K8-F	SieB-HP26K1-F
Technical data				
Usable energy* [kWh]	10.24	15.36	20.48	25.60
Depth of discharge	Max.100% DOD (settable)			
Module type	SieB-HP5222-F			
Module parameter	51.2V 100Ah 640*400*184 45.2kg±1kg			
Cell type	LFP (LiFePO4)			
Max. module configuration	2**** 	3 	4 	5 
Cell configuration	1P32S	1P48S	1P64S	1P80S
Nominal voltage [V]	102.4	153.6	204.8	256
Operating voltage range [V]	91.2-115.2	136.8-172.8	182.4-230.4	228-288
Communication	CAN / RS485			
Short circuit current [A]	1900			
Weight [kg]	144.1	189.3	234.5	279.7
Dimensions (W*D*H) [mm]	640*400*1000	640*400*1150	640*400*1300	640*400*1450
Operating temperature [°C]	Charge: 0-50 / Discharge: -20-50			
Storage temperature [°C]	-20-45 (≤1 Months) / -20-25 (≤6 Months)			
Humidity [%]	5-95			
Altitude [m]	≤2000			
Degree of protection	IP66 (Indoor / Outdoor)			
Fire Protection Function	Optional			
Cooling	Natural convection			
Installation location	Floor-standing			
Display	SOC indicator, Status indicator			
Warranty***	10 Years			

* Test conditions : 3.0V~3.5V , 0.2C Charge(CC-CV) and Discharge at 25±3°C; 100% depth of discharge (DOD);



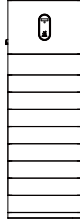

** Max. Continuous Current / Power derating will occur related to Temperature/ SOC/ Humidity;

Max. Continuous Power equals Operating voltage range times Max. charge/discharge current as different inverter type.

*** Refer to Swatten SieB-HP-F Limited Warranty Letter.

**** 2 Modules only for single phase, 9 Modules only for three phase.

All-in-one Pro System Batteries (HV) (10.44-47) kWh

Type Designation	SieB-HP31K3-F	SieB-HP36K5-F	SieB-HP41K7-F	SieB-HP47K0-F
Technical data				
Usable energy* [kWh]	30.72	35.84	40.96	46.08
Depth of discharge	Max.100% DOD (settable)			
Module type	SieB-HP5222-F			
Module parameter	51.2V 100Ah 640*400*184 45.2kg±1kg			
Cell type	LFP (LiFePO4)			
Max. module configuration	6 	7 	8 	9**** 
Cell configuration	1P96S	1P112S	1P128S	1P144S
Nominal voltage [V]	307.2	358.4	409.6	460.8
Operating voltage range [V]	273.6-345.6	319.2-403.2	364.8-460.8	410.4-518.4
Communication	CAN / RS485			
Short circuit current [A]	1900			
Weight [kg]	324.9	370.1	415.3	460.5
Dimensions (W*D*H) [mm]	640*400*1600	640*400*1750	640*400*1900	640*400*2050
Operating temperature [°C]	Charge: 0-50 / Discharge: -20-50			
Storage temperature [°C]	-20-45 (≤1 Months) / -20-25 (≤6 Months)			
Humidity [%]	5-95			
Altitude [m]	≤2000			
Degree of protection	IP66 (Indoor / Outdoor)			
Fire Protection Function	Optional			
Cooling	Natural convection			
Installation location	Floor-standing			
Display	SOC indicator, Status indicator			
Warranty***	10 Years			

* Test conditions : 3.0V~3.5V , 0.2C Charge(CC-CV) and Discharge at 25±3°C; 100% depth of discharge (DOD);

** Max. Continuous Current / Power derating will occur related to Temperature/ SOC/ Humidity;

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FROM GRID TO HOME

Full Range From Power Generation, Transmission, Distribution To

Energy Storage

33 years

With 33 years of experience, specialized in equipment manufacturing and engineering services

Public Co.

Founded in 1993
 Stock listed in 2004 (SZSE002028)

US\$5.0 Billion

2025 Turnover

TOP 3

Sieyuan 思源电气
 Electrical Equip. Manufacturer

1,000kV

Full range product: 10kV -1,000kV

1400+

1411 Qualified engineers are the driving force behind the exceptional R&D progress

100+

With 10,000+ employees in 100+ countries and regions

22

22 Manufacturing bases



swatten
 Powered by Sieyuan

C&I and Residential BESS

esGrid
 Grid-level energy storage

Sieyuan Utility Scale BESS





Swatten's Global Cases



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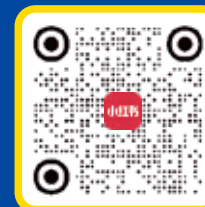
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