

# 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.



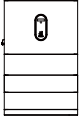
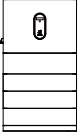
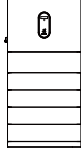

# All-in-one Pro System Single Phase (HV) (5-10) kW

Type Designation	All-in-one P sys-5kW-SH	All-in-one P sys-6kW-SH	All-in-one P sys-8kW-SH	All-in-one P sys-10kW-SH
<b>PV (input)</b>				
Max. recommended PV array power [Wp]	12000	13000	16000	20000
Max. PV input voltage* [V]			600	
Min. operating PV voltage [V]			40	
Start-up input voltage [V]			50	
Rated PV input voltage [V]			360	
MPPT voltage range [V]			40-560	
No. of MPPT/Strings per MPPT	2 (1/1)			4 (1/1/1/1)
Max. PV input current [A]	32 (16/16)			64 (16/16/16/16)
Max. DC short-circuit current [A]	40 (20/20)			80 (20/20/20/20)
Max. current for each input connector [A]			20	
<b>Battery</b>				
Battery type	LiFePO4 Prismatic Cell			
Max. charge/discharge current [A]	30/30	30/30	50/50	50/50
Battery voltage range [V]	80-460			
Nominal capacity range	10.24 kWh-40.96 kWh (5.12 kWh/100 Ah per module)			
Number of connectable modules	2-8 modules			
<b>Backup Output (On-Grid Mode)</b>				
Rated output power [W]	6000		14500	
Rated output current [A]	27		63	
<b>Backup Output (Off-Grid Mode)</b>				
Rated output power	5000 W / 5000 VA	6000 W / 6000 VA	8000 W/8000 VA	9999 W/9999 VA
Peak output power**	8400 VA, 10s		13680 VA, 10s	
Backup switching time [ms]	<10			
Rated voltage [V]	220/230/240 (±2%)			
Frequency range [Hz]	50/60 (±0.5%)			
Total harmonic distortion (THDv, rated power, linear load) [%]	≤2			
<b>Grid (input/output)</b>				
Max. AC input power from grid [VA]	12000	13000	14500	
Rated AC output power [W]	5000	6000	8000	9999
Max. AC output power [VA]	5000	6000	8000	9999
Rated AC output current (at 230V) [A]	21.8	26.1	36.4	45.5
Max. AC output current [A]	22.8	27.3	36.4	45.5
Rated AC voltage [V]	220/230/240			
AC voltage range [V]	154-276			
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	> 0.99			
Adjustable power factor	adjustable 0.8.leading to 0.8 lagging			
<b>Efficiency</b>				
Max. efficiency/European efficiency [%]	97.70/97.30		97.40/96.80	
<b>Protection &amp; Function</b>				
Surge protection	DC type II/AC type II			
Grid monitoring	Yes			
DC reverse polarity protection	Yes			
Battery input reverse polarity protection	Yes			
AC short-circuit protection	Yes			
Leakage current protection	Yes			
DC switch (PV)	Yes			
DC fuse (Battery)	Yes			
<b>General Data</b>				
Topology (PV/Battery)	Transformerless			
Degree of protection	IP65			
Mounting method	Floor-standing			
Operating ambient temperature range [°C]	-25-60			
Storage temperature [°C]	-20-45 (≤1 Month)/-20-25 (≤6 Months)			
Allowable relative humidity range [%]	5-95			
Cooling method	Natural convection			
Max. operating altitude [m]	2000			
Display	LED			
Communication	RS485/CAN/WLAN			
DI/DO	1*DI/1*DO/DRM		1*DI/2*DO/DRM	
DC connection type	MC4			
Battery connection type	MC4			
AC connection type	Plug and play connector			

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

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

# 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
<b>Technical data</b>				
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);



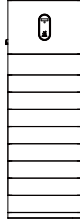

\*\* Max. Continuous Current / Power derating will occur related to Temperature/ SOC/ Humidity;

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
<b>Technical data</b>				
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;

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

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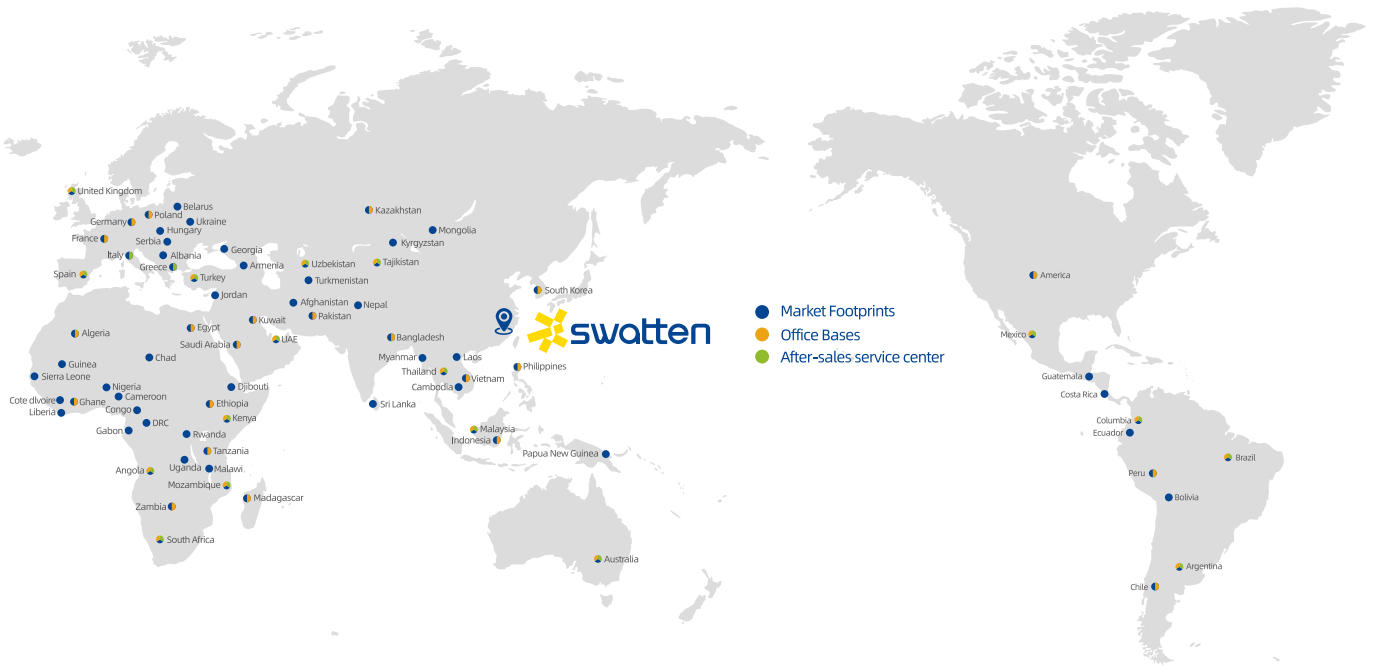
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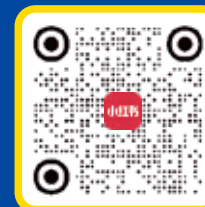
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