

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

Type Designation	All-in-one sys-5kW-SH	All-in-one sys-6kW-SH	All-in-one sys-8kW-SH	All-in-one sys-10kW-SH
PV (input)				
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	
Battery				
Battery type			Li-ion battery	
Max. charge/discharge current [A]			30/30	
Battery voltage range [V]			80-460	
Nominal capacity range			9.6 kWh-19.2 kWh (3.2 kWh/50 Ah per module)	
Number of connectable modules			3-6 modules	
Backup Output (On-Grid Mode)				
Rated output power [W]	6000		14500	
Rated output current [A]	27		63	
Backup Output (Off-Grid Mode)				
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	
Grid (input/output)				
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	
Efficiency				
Max. efficiency/European efficiency [%]	97.70/97.30		97.40/96.80	97.50/97.10
Protection & Function				
Surge protection			DC type II/AC type II	
Gird 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	
General Data				
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	