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H1 Series

Single Phase Hybrid Inverter (HV) (5/6) kW

Smarter Power Better Life

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Type Designation	SiH-5kW-SH	SiH-6kW-SH
PV (input)		
Max. recommended PV array power [Wp]	12000	13000
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)	
Max. PV input current [A]	32 (16/16)	
Max. DC short-circuit current [A]	40(20/20)	
Max. current for each input connector [A]	20	
Battery (input/output)		
Battery type	Li-ion battery	
Battery voltage range [V]	80-460	
Max. charge/discharge current [A]	30/30	
Max. charge/discharge power [W]	6600/6600	
Backup Output (On-Grid Mode)		
Rated output power [W]	5000 W/5000 VA	6000 W/6000 VA
Rated output current [A]	21.8	26.1
Backup Output (Off-Grid Mode)		
Rated output power	5000 W/5000 VA	6000 W/6000 VA
Peak output power	8400 VA, 10s	
Backup switching time [ms]	<10	
Rated voltage [V]	220/230/240	
Rated current [A]	21.8	26.1
Power factor	0.8 leading to 0.8 lagging (>0.99 @ Resistive load)	
Rated Frequency [Hz]	50	
Total harmonic distortion (THDv, rated power, linear load) [%]	≤2	
Grid (input/output)		
Max. AC input power from grid [VA]	5000	6000
Rated AC output power [W]	5000	6000
Max. AC output power [VA]	5000	6000
Rated / Max. AC current [A]	21.8/22.8	26.1/27.3
Rated AC voltage [V]	1/N/PE 220/230/240	
AC voltage range [V]	154-276	
Rated grid frequency [Hz]	50	
Grid freguency range [Hz]	45-55	
Total harmonic distortion (THDi) [%]	<3	
Power factor at rated power	>0.99	
Adjustable power factor	adj.0.8.leading to 0.8 lagging	
Efficiency		
Max. efficiency/European efficiency [%]	97.70/97.30	97.70/97.30
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	
General Data		
Topology (PV/Battery)	Non-isolated	
Degree of protection	IP65	
Dimensions (W*H*D) [mm]	495*345*180	
Weight [kg]	≤20	
Mounting method	Wall-mounting bracket	
Operating ambient temperature range [℃]	-25-60	
Allowable relative humidity range [%]	0-100	
Cooling method	Natural convection	
Max. operating altitude [m]	4000	
Display	LED	
Communication	RS485/CAN/WLAN	
DI/DO	1*DI / 1*DO/ DRM	
DC connection type	MC4	
Battery connection type	MC4	
AC connection type	Screws & Fasteners	
Overvoltage category	AC III, DC II	
Protective class	Class I	
Active Abti-isianding method	Frequency Shift	
Country of manufacture	China	