



STEALTH AIO

FEATURES

30 min Easy installation: one person and half hour

W Ultra-high power density ratio

10 YEARS Warranty: 10 years or 10000 cycles

W Customize capacity as required: 5.5 to 33.2 kWh

U Superior interface experience

U Ultra safe, durable LiFePo battery technology

C Child and pet friendly design

Technical Specifications

Model		ST-AIO-S5.0		
BATTERY				
Battery type	Li-Ion			
Voltage Range[V]	160-350			
Recommended battery voltage[V]	300			
Nominal Energy(kWh)	5.5	8.3	11	
DOD	95%			
Max. continuous charge/ discharge current [A]	25			
Communication interfaces	CAN/ RS485			
Reverse connect protection	YES			
Input (DC)		Output (AC)		
Max. PV array power [Wp]	6600	Nominal AC power [VA]	5000	
Max. DC voltage [V]	580	Max. apparent AC power [VA]	5000	
Nominal DC operating voltage [V]	380	Nominal grid voltage (AC voltage range) [V]	220/230/240(180-270)	
Max. input current [A]	12/12	Nominal grid frequency/ range [Hz]	50/60	
Max. short circuit current [A]	14/14	Nominal AC current [A]	21.7	
MPPT voltage range [V]	70-580	Max. AC current [A]	21.7	
Start operating voltage [V]	100	Displacement power factor	0.8 leading to 0.8 lagging	
		THDi, rated power [%]	<2	
Input (AC)		EPS Output (WITH BATTERY)		
Max. apparent AC power [VA]	10000	EPS Max. continuous apparent power [VA]	5000	
Max. AC current [A]	43.4	EPS rated voltage [V], Frequency [Hz]	230, 50/60	
Nominal grid voltage (AC voltage range) [V]	220/230/240(180-270)	EPS Max. continuous current [A]	26	
Nominal grid Frequency/ range [Hz]	50/60	EPS peak apparent power [VA]	6000	
		Changeover time [ms]	<200	
		THDv, linear Load [%]	<2	
Efficiency		Power Consumption		
PV Max. efficiency [%]	97.6	Night Power Consumption [W]	<10	
PV Europe Efficiency [%]	97	Protection		
PV Max. MPPT efficiency [%]	99.9	Over-voltage protection/Low-voltage protection	YES	
Max. Battery charge efficiency (PV to BAT) [%]	98.2	Ground fault monitoring	YES	
Max. Battery charge efficiency (GRID to BAT) [%]	97.4	Grid monitoring	YES	
Max. Battery discharge efficiency (BAT to AC) [%]	97.5	Environment Limit		
Standard		Degree of protection (according to IEC60529)	IP65	
Safety	IEC62109-1/IEC62109-2/IEC62619	Operating temperature range [°C]	0-45*	
EMC	EN 61000-6-1/ EN 61000-6-2/ EN 61000-6-3	Altitude (m) [m]	<2000	
Certification	VDE-AR-N 4105 / AS4777 / EN50549 / CEI 0-21/G100	Humidity [%]	5-95%	
		Typical Noise Emission [dB]	<30	
Dimension And Weight				
Dimensions (WxHxD) [mm]	640*1000*220	640*1300*220	640*1590*220	
Weight [kg]	73	105	137	
Cooling Method	Natural			
Topology	Transformerless			
Communication interfaces	Ethernet/ Meter/ Pocket WiFi (optional) / Pocket LAN (optional) / Pocket GPRS (optional) / DRM/ USB/ ISO alarm/ CT			
cycle life	12000**			

* When the temperature is below 0 °C or above 40 °C, the performance will be limited.

** Under specific test conditions