Angile ENERGY

ePowerCUBE
Smart Home
Energy Product Platform

ePowerCUBE AIOT

Three-phase residential energy storage system

- 150% PV panel power configuration
- Easy installation
- Three-phase unbalanced output
- Load monitoring accuracy 10W
- Intelligent insulation detection
- 120-800V battery voltage range
- Off-grid 150% overload operation
- Multi-stage charging/ discharging time setting
- IP65 dust and water protection
  C4 corrosion protection
- Reverse flow protection
- Remote upgrade
- Inverter, 5-year warranty
  Battery pack, 10-year warranty

Angile ENERGY The Smart Electrical Energy System Expert

Home Energy Management System

Three-phase hybrid inverter

Model	AE8K-H-T	AE10K-H-T	AE12K-H-T
PV (input)			
Max. PV input power (kW)		15	
Max. DC voltage (V)		1000	
MPPT voltage range (V)		180~950	
Max. DC current (A)		16+16	
Max. inverter backfeed current to the array (A)		0	
Isc PV (A)		20+20	
Start voltage		120	
AC (input/output/EPS)			
Rated grid voltage (V)		3L/ N/ PE，220/ 380, 230/ 400	
Rated current (A)	12.2/11.6	15.2/14.5	18.2/17.4
Rated grid frequency (Hz)	50/60	50/60	50/60
Rated input active power (kW)	12	15	18
Rated input apparent power (kVA)	12	15	18
Max. input apparent power (kVA)	12	15	18
Max. input current (A)	20.3	22.7	27.2
Overload capacity	150%	120%	100%
Max. output current (A)	13.5	16.8	20.1
System efficiency			
MPPT efficiency		99.90%	
European efficiency		97%	
Max. efficiency		97.60%	
Charge/discharge efficiencya		98.5%/97.5%	
General information			
Operating temperature range		-25~60°C(>45°C derating)	
Topology		Non-Isolated	
Altitude		<3000m	
Noise		<30dB	
Protection rating		IP65	
Cooling method		Natural cooling	
Product size (mm)		550*575*244	
Weight (kg)		29	
Safety certification standards		IEC62109-1, IEC62109-2	
EMC certification standards		IEC61000-6-1, IEC61000-6-3	
Certificatet		TUV CE	
Grid-Connection Standards (refer to the certification status below)		Germany: VDE-AR-N 4105/11.18 Europe: EN 50549-1:2019 EN 50549-10:2022 South Africa: NRS 097-2-1:2017 Ed.2.1 Sweden: EIFS 2018:2 CEI 0-21: 2022-03 、 V1:2022-11 、V2:2024-01 CEI 0-21: 2022-03 、 V1:2022-11 、V2:2024-01	

High-voltage battery

Model	AES5.1-M (with auxiliary electric heating)	AES5.1-M1
Battery parameters		
Rated voltage	102.4	
Operating voltage	89.6~113.6	
Rated capacity (Ah)	50	
Energy capacity (kWh)	5.12	
Battery material	LFP (32S1P)	
Recommended charge/discharge current	25A/25A (25°C)	
Max. charge/discharge current	32A/32A(25°C)	
Charge/discharge efficiency	> 95%	
Cycle life	> 10000* Cycles	
Depth of discharge (DoD)	90%	
Operating temperature	-18°C~53°C	
Communication interface	CAN, RS485	
General information		
Dimensions of battery pack (WxHxD)	550×340×252 mm	
Battery pack weight (kg)	52	
Dimensions of battery controller (Wx HxD)	550×200×252 mm	
Weight of battery controller (kg)	9.5	
Protection rating	IIP65	
Cooling method	Natural Cooling	
Warranty period	10 Years	
EMC certification standards	IEC 61000-6-1, IEC 61000-6-3	
Safety certification standards	IEC/EN62477-1, IEC62619, IEC 60730 Annex H, IEC63056	
Environmental standards	——	
Transportation standards	UN38.3	
Scalability	Up to 6 modules	

* The above data were obtained through tests under laboratory conditions at 20°C, and the actual operating environment may vary.