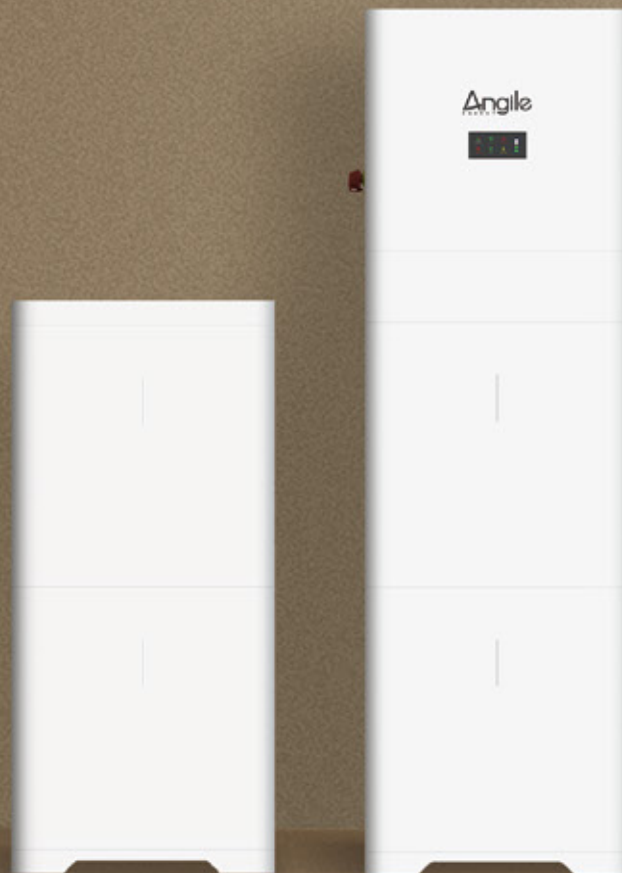
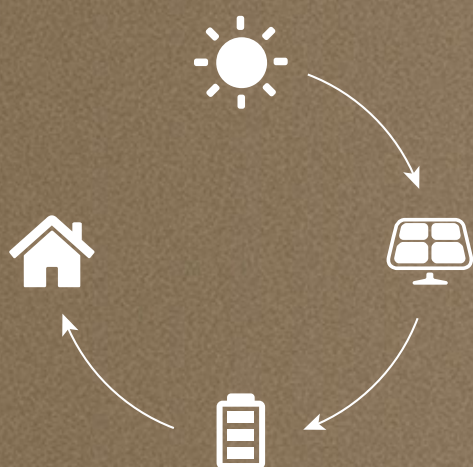


Single-Phase Residential

Energy Storage System

Hybrid Inverter 4.6-6 kW

LFP Battery 5 - 30 kWh



Up to 150%
PV input



Easy installation
Plug and Play



Factory reset
function



Off-grid 1.5 times
overload operation



Low temperature
heating function



IP65
Rating



Load monitoring
accuracy 10W.



Automatic parallel
function, no dip



AFCI function,
extra safety



Anti-back flow
function



Remote
upgrade



Inverter 5 years
Battery 10 years
warranty



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SINGLE-PHASE LOW VOLTAGE ESS

IP rating	IP65		
Cooling	Natural cooling		
Warranty	Inverter 5 years, Battery 10 years		
HYBRID INVERTER	AE4K6-L1-S	AE5K-L1-S	AE6K-L1-S
Coupling	Hybrid		
Max. PV Input Power (kW)	7		
Max. DC Voltage (V)	550		
MPPT Voltage Range (V)	150-500		
Max. DC Current (A)	14 +14		
Isc PV (A)	18 +18		
Max. Charge/Discharge Power (kW)	4.6 / 4.6	5 / 5	5 / 5
Rated Battery Voltage (V)	51.2		
Battery Voltage Range (V)	45-58		
Max. Battery Charge/Discharge Current (A)	90 / 90	100 / 100	100 / 100
Rated Grid Voltage (V)	L / N / PE 220 / 230		
Rated Current (A)	20.9 / 20.0	22.7 / 21.7	27.3 / 26.1
Rated Grid Frequency (Hz)	50/60		
Rated Grid Input Active Power (kW)	4.6	5	6
Max. Grid Input Current (A)	25	25	28
Rated Grid Output Active Power (kW)	4.6	5	6
Rated EPS Output Apparent Power (kVA)	4.6	5	6
Max. EPS Output Current (A)	25	25	28
Max. Efficiency	97.6%		
Power Factor Range	0.9ind-0.9cap		
THD	<3%		
Operating Temperature Range	-25-60°C (>45°C Derating)		
Communication Interface	WIFI\RS485		
Product Dimension (W×H×D) / Weight	550×565×232 mm /28kg		
Certification Standards	Safety: IEC62109-1, IEC62109-2, EMC: IEC61000-6-1, IEC61000-6-3		
Certificate	TUV CE		
Certification	EN62109, IEC/EN61000, G98/G99, CEI 0-21:2022, EN50549-1, RfG:2016, EIFS 2018:2, VDE-AR-N 4105, DIN VDE V 0124, NRS 097-2-1:2017 Edition 2.1		
BATTERY PACK	AE-BS48/5-1-W	AES5.3-L/AES5.3-L1	
Rated Voltage (V)	51.2		
Operating Voltage Range (V)	44.8 - 58.0	40 - 58	
Rated Capacity (Ah)	105	104	
Energy Capacity (kWh)	5.376	5.32	
Battery Material	LFP		
Recommnd Charge/Discharge Current	50A / 50A (25°C)		
Max. Charge/Discharge Current	100A / 100A (25°C)		
Charge/Discharge Efficiency	> 95%		
Cycle Life	> 6000* Cycles		
Ambient Temperature	-20° ~ 53°C		
Charging / Discharging Temperature	0°C~53°C / -18°C~53°		
Communication	CCAN, RS485		
Battery Dimension (W×H×D) / Weight	550 x 550 x 195 mm / 59 kg	550 x 550 x 195 mm / 54 kg	
Certificate	TUV, CE		
EMC Certification Standards	IEC 61000 - 6 - 1, IEC 61000 - 6 - 3		
Safety Certification Standards	IEC 62619, IEC 63056, IEC 60730 Annex H		
Environmental	RoHS REACH	RoHS	
Transportation	UN38.3		

* AT 25°C, UNDER SPECIFIC TEST CONDITIONS.