



Single-Phase Residential Hybrid Inverter



Hybrid Inverter 4.6 - 6 kW

AE4K6-L1-S, AE5K-L1-S, AE6K-L1-S



Up to 150%
PV input



Anti-back flow
function



Load monitoring
accuracy 10W.



Off-grid 1.5 times
overload operation



Remote
upgrade



AFCI function,
extra safety



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HYBRID INVERTER	AE4K6-L1-S	AE5K-L1-S	AE6K-L1-S
IP rating	IP65		
Cooling	Natural cooling		
Warranty	5 years		
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)	4.6 / 4.6	18 +18	5 / 5
Max. Charge/Discharge Power (kW)	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	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		