

ePowerCUBE **PCST**

Three-phase residential
hybrid inverter



150% PV panel power
configuration



Load monitoring
accuracy 10W



Three-phase
unbalanced output



Off-grid 150%
overload operation



Reverse flow
protection



Remote upgrade

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)						
Rated grid voltage (V)				3L/ N/ PE, 220/ 380, 230/ 400		
Rated current (A)		12.2/11.6		15.2/14.518.2/17.4		
Rated grid frequency (Hz)		50/60		50/6050/60		
Rated input active power (kW)		12		1518		
Rated input apparent power (kVA)		12		1518		
Max. input apparent power (kVA)		12		1518		
Max. input current (A)		20.3		22.727.2		
Overload capacity		150%		120%100%		
Max. output current (A)		13.5		16.820.1		
Battery input/output						
Rated voltage (V)				3L/N/PE, 220/380, 230/400		
Rated frequency (Hz)				50/60		
Apparent power (kVA)				8		
Max. power (kVA)				8		
Max. output current (A)				13.5		
System efficiency						
MPPT efficiency				99.90%		
European efficiency				97%		
Max. efficiency				97.60%		
Charge/discharge efficiency				98.5%/97.5%		
Protection function						
DC reverse-polarity protection				Yes		
Island protection				Yes		
Residual current protection				Yes		
AC short-circuit protection				Yes		
AC overvoltage protection				Yes		
Integrated DC switch				Yes		
Insulation monitoring				Yes		
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		
EMC certification standards				IEC62109-1, IEC62109-2		
Safety certification standards				IEC61000-6-1, IEC61000-6-3		
Certificate				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: EIFS2018:2 CEI 0-21: 2022-03 、 V1:2022-11 、 V2:2024-01 CEI 0-21: 2022-03 、 V1:2022-11 、 V2:2024-01		

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