

Residential three-phase string inverter



High Yield

- Module efficiency 23.8%
- Generate power under low-light
Longer system operation time
- MPPT per string

Safety

- DC/AC surge protection

Easy installation, O&M

- Small and light
- Smart OTA
- Real-time monitoring per string

Easy and stable grid-connection

- Self-adapting control algorithm
suitable for poor grid

Technical Parameters

MODEL	AE-SPI-15KTL-S1	AE-SPI-20KTL-S1
Efficiency		
Max. Efficiency	98.6%	98.6%
European Efficiency	98.2%	98.3%
Input(DC)		
Max. DC Voltage	1,100V	1,100V
Nominal Voltage	620V	620V
Start Voltage	250V	250V
MPPT Voltage Range	140V~1,000V	140V~1,000V
Number of MPPT	2	2
Strings Per MPPT	2/1	1
Max. Input Current Per MPPT	30A/15A	30A
Max. Short-circuit Current Per MPPT	40A/20A	40A
Output(AC)		
Nominal AC Output Power	15,000W	20,000W
Max. AC Output Power	16,500VA	22,000VA
Nominal AC Voltage	400V 3L+N	
AC Grid Frequency Range	50/60Hz(±5Hz)	
Max. Output Current	23.9A	31.9A
Power Factor(Φ)	0.8leading-0.8lagging	
THDi	<3%	
General Specifications		
Dimensions (W x H x D)	380x483x193mm	Weight20.7kg
AC Output Terminal Type	Connector	Operating Temperature Range-25℃~+60℃
IP Class	IP66	Cooling TypeFan Cooling
Topology	Without Transformer	Max. Operating Altitude4,000m
Communication	RS485/Wifi/4G	Max. Operating Humidity0-100%(No condensation)
Display	LCD	
Certification & Standard	EN/IEC62109-1/2; IEC/EN61000-6-2; IEC/EN61000-6-4; IEC61683; IEC60068; IEC60529; IEC62116; IEC61727; EN50549-1; NB/T32004-2018; GB/T19964-2012	
Protection devices		
DC Switch	yes	String Fault Detectionyes
Output Over Current Protection	yes	DC/AC Surge ProtectionDC: Type II / AC: Type III (Type II optional)
Anti-islanding Protection	yes	Insulation Detectionyes
DC Reverse Polarity Protection	yes	AC Short-Circuit Protectionyes