

C&I three-phase string inverter



High Yield

- Max efficiency 98.7%
- Multiple MPPT design

Safe & Reliable

- Fuse free design
- AFCI protection
- Smart IV health scan

Easy Installation

- Compact & lightweight
- Smart OTA update

Grid Friendly

- Self-adapting control algorithm suitable for weak grid

Technical Parameters

MODEL	AE- SPI-100KTL-S1	AE- SPI-110KTL-S1	
Efficiency			
Max. Efficiency	98.7%	98.7%	
European Efficiency	98.3%	98.3%	
Input(DC)			
Max. DC Voltage	1,100V	1,100V	
Nominal Voltage	620V	620V	
Start Voltage	250V	250V	
MPPT Voltage Range	200V~1,000V	200V~1,000V	
Number of MPPT	10	10	
Strings Per MPPT	2	2	
Max. Input Current Per MPPT	30A	30A	
Max. Short-circuit Current Per MPPT	50A	50A	
Output(AC)			
Nominal AC Output Power	100kW	110kW	
Max. AC Output Power	110kVA	121kVA	
Nominal AC Voltage	400V 3W+N+PE	400V 3W+N+PE	
AC Grid Frequency Range	50/60Hz(±5Hz)	50/60Hz(±5Hz)	
Max. Output Current	147.0A	161.7A	
Power Factor(Φ)	0.8 leading – 0.8 lagging	0.8 leading – 0.8 lagging	
THDi	3%	3%	
General Specifications			
Dimensions (W x H x D)	1055x700x336mm	Weight	93kg
AC Output Terminal Type	OT terminal	Operating Temperature Range	-25°C~+60°C
IP Class	IP66	Cooling Type	Air cooling
Topology	Transformerless	Max. Operating Altitude	4000m
Communication	RS485/Wifi/4G	Max. Operating Humidity	0-100%(No condensation)
Display	LED/Bluetooth+APP		
Certification & Standard	EN/IEC62109-1;EN/IEC62109-2;IEC/EN61000-6-2;IEC/EN61000-6-4;IEC/EN61000-3-11;IEC/EN61000-3-12;IEC61683;IEC60068;IEC60529;IEC62116;IEC61727;EN50549-1;EN50549-2		
Protection devices			
DC Switch	yes	String Fault Detection	yes
Output Over Current Protection	yes	DC/AC Surge Protection	Type II
Anti-islanding Protection	yes	Insulation Detection	yes
DC Reverse Polarity Protection	yes	AC Short-circuit Protection	yes

