

C&I three-phase string inverter



High Yield

- Max efficiency 98.7%
- Multiple MPPT design

Safe & Reliable

- Fuse free design
- String-level monitoring

Easy Installation

- Compact & lightweight
- Smart OTA update

Grid Friendly

- Self-adapting control algorithm suitable for weak grid

Technical Parameters

MODEL		AE-SPI-30KTL-S1	
Efficiency			
Max. Efficiency		98.7%	
European Efficiency		98.4%	
Input(DC)			
Max. DC Voltage		1,100V	
Nominal Voltage		620V	
Start Voltage		250V	
MPPT Voltage Range		200V~1,000V	
Number of MPPT		3	
Strings Per MPPT		2	
Max. Input Current Per MPPT		30A	
Max. Short-circuit Current Per MPPT		40A	
Output(AC)			
Nominal AC Output Power		30,000W	
Max. AC Output Power		33,000VA	
Nominal AC Voltage		400V 3L+N	
AC Grid Frequency Range		50/60Hz(±5Hz)	
Max. Output Current		47.8A	
Power Factor(Φ)		0.8 leading - 0.8 lagging	
THDi		3%	
General Specifications			
Dimensions (W x H x D)	380x483x223mm	Weight	25.5kg
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	4,000m
Communication	RS485/Wifi/4G	Max. Operating Humidity	0-100%(No condensation)
Display	LCD		
Certification & Standard	EN/IEC62109-1;EN/IEC62109-2;IEC/EN 61000-6-1;IEC/EN 61000-6-3;IEC/EN61000-6-2;IEC/EN61000-6-4;IEC61683; IEC60068;IEC60529;IEC62116;IEC61727;EN50549-1;NC RfG;NRS 097;VDE-AR-N-4105;VDE0126;CEI0-21;C10/C11		
Protection devices			
DC Switch	yes	String Fault Detection	yes
Output Over Current Protection	yes	DC/AC Surge Protection	Type II / Type III(Type II Optional)
Anti-islanding Protection	yes	Insulation Detection	yes
DC Reverse Polarity Protection	yes	AC Short-Circuit Protection	yes