



STRING INVERTER

SOI-S75K/100K/ 110K/120K-T



Safe & Reliable

- Type II DC/AC surge protection, lightning-proof
- 300m AFCI detection with 0.5s rapid shutdown
- IP66, 1400+ cumulative rigorous tests
- PV optimizers compatible, module-level shutdown

Convenient & User-Friendly

- Compact and lightweight design, plug-and-play installation
- App-based quick setup
- Intelligent layout with rapid module-level visualization

Profitable & Efficient

- 40A design, dynamic MPPT efficiency of 99.9%
- Built-in PID repair, improving overall system performance
- AI dynamic MPPT, boosting power generation by 5%

Smart & Manageable

- Module-level monitoring for precise fault positioning
- Intelligent IV diagnostics for precise fault identification
- Real-time monitoring with OTA for online maintenance

Product Model	SOI-S75K-T	SOI-S100K-T	SOI-S110K-T	SOI-S120K-T
PV Input				
Max. Input Voltage			1,100V	
Nominal Input Voltage			620V	
Start-up Voltage			160V	
MPPT Operating Voltage Range			140 ~ 1,000V	
MPPT Full Load Voltage Range			500 ~ 850V	
Max. Input Current Per MPPT			40A	
Max. Input Current Per String			20A	
Max. Short-Circuit Current			50A	
Number of MPPT			10	
Max. Input Number Per MPPT			20	
AC Output				
Nominal Output Power	75kW	100kW	110kW	120kW
Max. Apparent Power	82.5kVA	110kVA	121kVA	132kVA
Nominal Output Voltage		3L / N / PE, 220 / 380V, 230 / 400V		
Nominal AC Grid Frequency		50 / 60Hz		
Nominal Output Current	113.9A	151.9A	167.1A	182.3A
Max. Output Current	125.3A	167.2A	185.7A	190.5A
Adjustable Power Factor		0.8 leading...0.8 lagging		
THDi		< 3%		
Efficiency				
Max. Efficiency		98.8%		
European Weighted Efficiency		98.3%		
MPPT Efficiency		99.9%		
Protection				
Active Anti-islanding Protection		General Electric Frequency Shift		
Residual Current Monitoring		Yes		
DC Reverse Polarity Protection		Yes		
DC Switch		Yes		
AC Short-circuit Protection		Yes		
AC Overvoltage Protection		Yes		
AC Overcurrent Protection		Yes		
DC Surge Protection		Type II		
AC Surge Protection		Type II		
Ground Fault Detection		Yes		
AFCI		Optional		
PID recovery		Optional		
General Data				
Operating Temperature Range		-30 to + 60°C		
Relative Operating Humidity		0 ~ 100 %RH		
Operating Altitude		4,000m		
Cooling		Smart Air Cooling		
Display		LED/ WLAN+App		
Communication		RS485 / 4G / WIFI / HPLC		
Weight		94kg		
Dimensions (W*H*D)		1000*730*375mm		
Topology		Non-Isolated		
Degree of Protection		IP66		
Overvoltage Level		PV II / AC III		

SUNPLUS pursues minimizing paper output in consideration of the global environment

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