



STRING INVERTER

SOI-S3K/3K6/4K/ 4K6/5K/6K/7K5-S



Safe & Reliable

- IP66, 1,400+ cumulative rigorous tests
- Type II DC/AC surge protection, lightning-proof
- 300m AFCI detection with 0.5s rapid shutdown

Convenient & User-Friendly

- Compact and lightweight design, plug-and-play installation
- App-based quick setup, simple and efficient

Profitable & Efficient

- 160% PV oversizing for extended output
- 98.2% efficiency with wide MPPT range
- 18A design, ideal for high-power modules

Smart & Manageable

- Intelligent IV diagnostics for precise fault identification
- Scenario-based app with real-time energy monitoring

SunPlus PV Inverter – Experience Quality and Reliability.

Product Model	SOI-S3K-S	SOI-S3K6-S	SOI-S4K-S	SOI-S4K6-S	SOI-S5K-S	SOI-S6K-S	SOI-S7K5-S
PV Input							
Max. Input Power	4,800W	5,760W	6,400W	7,360W	8,000W	9,600W	12,000W
Max. Input Voltage				600V			
Nominal Input Voltage				360V			
Start-up Voltage				100V			
MPPT Operating Voltage Range				80 – 560V			
MPPT Full Load Voltage Range				200 – 500V			
Max. Input Current Per MPPT				18A			
Max. Short-Circuit Current				24A			
Number of MPPT				2			
Max. Input Number Per MPPT				1 / 1			
AC Output							
Nominal Output Power	3,000W	3,600W	4,000W	4,600W	5,000W	6,000W	7,500W
Max. Apparent Power	3,300VA	3,960VA	4,400VA	5,060VA	5,500VA	6,600VA	7,500VA
Nominal Output Voltage				1 / N / PE, 220V / 230V / 240V			
Nominal AC Grid Frequency				60Hz			
Nominal Output Current	13.6A	16.4A	18.2A	20.9A	22.7A	27.3A	34.0A
Max. Output Current	15.0A	18.0A	20.0A	23.0A	25.0A	30.0A	34.0A
Adjustable Power Factor				0.8 leading...0.8 lagging			
THDi				< 3%			
Efficiency							
Max. Efficiency				98.2%			
European Weighted Efficiency				97.6%			
MPPT Efficiency				99.9%			
Protection							
Active Anti-islanding Protection				Yes			
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				Yes			
General Data							
Operating Temperature Range				-25 to + 60°C			
Relative Operating Humidity				0 – 100 %RH			
Operating Altitude				4,000m			
Cooling				Natural Cooling			
Display				LED+App			
Communication				RS485 / 4G / WIFI			
Weight				11.6kg			
Dimensions (W*H*D)				340*360*136mm			
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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