



YI S13P SERIES
String Inverter

3-Phase | 4 MPPTs
50-60KW

High Efficiency

- Max. 40 A current input, compatible with bifacial module
- Up to 4 MPPT's for flexible PV array design
- Built-in PID recovery function, support P / N-type modules
- Smart IV Curve Diagnosis, optimizing generation in shade

Safe & Reliable

- Weak grid optimization, stable grid connection
- Full load running at 45%, long term overload
- Support AFCI, stay away from fire risk

Simple O&M

- Low-noise design, environmentally friendly
- Modular cooling system, easy to maintain
- Intelligent O&M, string-level Management

	SI-3P-50K-L-Y1	SI-3P-60K-L-Y1
PV Input		
Max. Input Voltage	1100 V	
MPPT Voltage Range / Rated Input Voltage	200 V ~ 1000 V / 630 V	
Start -up Voltage	250 V	
Max. MPPT Input Current	40 A / 32 A / 32 A / 40 A	
Max. MPPT Short Circuit Current	60 A / 48 A / 48 A / 60 A	
No. of MPPT / No. of String per MPPT	4 / 2	
AC output		
Rated Output Power	50 kW	60 kW
Max. Output Apparent Power	55 kW	66 kW
Rated Output Voltage	380 V / 400 V	
Rated Voltage Frequency	50 Hz / 45 Hz ~ 55 Hz; 60 Hz / 55 Hz ~ 65Hz	
Max. Output Current / Rated Output Voltage	83.6 A / 76.0 A	95.3 A / 86.7 A
Power Factor / Power Factor Range	1 / 0.8 Leading to 0.8	
Phase	3L / N / PE	
Total Current Waveform Distortion Rate	≤ 3% (Rated power)	
Efficiency & Protection		
Max. Efficiency / European Efficiency	98.6% / 98.3%	
DC Switch	Yes	
DC Insulation Impedance Detection / Grid Monitoring	Yes / Yes	
DC Reverse Polarity Protection / AC Short Circuit Protection	Yes / Yes	
Residual Current Monitoring	Yes	
Lightning Protection	Yes	
Anti Is-landing Protection	Yes	
PID Recovery Function	Optional	
Arc Fault Circuit Interrupter (AFCI)	Optional	
General data		
Dimensions (W x H x D)	672 x 582 x 270 mm	
Weight	41 kg	
Operation Temperature	-30 °C ~ +60 °C	
Nighttime Self-Consumption	<1 W	
Topology	Transformerless	
Cooling	Smart forced air cooling	
Protection Rating	IP66	
Operation Humidity	0 ~ 100%	
Max. Operating Altitude	4000 m	
Features		
DC Input Connector	MC4	
AC Output Connector	OT / DT connector	
Display	LED, APP	
Communication	4G, RS485*2	
Certification	CE, IEC 62109-1/2, NB/T 32004	