



## SI3P SERIES

## String Inverter

3-Phase | 4 MPPTs  
36-50kW

### High-Efficiency



Max. 20 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

- Support AFCI, stay away from fire risk

- Full load running at 45%, long term overload

### Simple O&M

- Low-noise design, environmentally friendly

- Intelligent O&M, string-level Management

- Modular cooling system, easy to maintain

	SI-3P36K-L-Y1	SI-3P40K-L-Y1	SI-3P50K-L-Y1
<b>PV Input</b>			
Max. Input Voltage	1100 V		
MPPT Voltage Range / Rated Input Voltage	180 V - 1000 V / 630 V	200 V - 1000 V / 630 V	
Start-up Voltage	160 V / 200 V		
Max. MPPT Input Current	40 A / 32 A / 20 A / 20 A		40 A / 40 A / 20 A / 32 A
Max. MPPT Short Circuit Current	50 A / 40 A / 25 A / 25 A		50 A / 50 A / 25 A / 40 A
No. of MPPT / No. of String per MPPT	4 (2 / 2 / 1 / 1)		4 (2 / 2 / 1 / 2)
<b>AC Output</b>			
Rated Output Power	36 kW	40 kW	50 kW
Max. Output Apparent Power	39.6 kVA	44 kVA	55 kVA
Rated Output Voltage	220 V / 380 V; 230 V / 400 V		
Rated Voltage Frequency	50 Hz / 45 Hz ~ 55 Hz; 60 Hz / 55 Hz ~ 65Hz		
Max. Output Current / Rated Output Voltage	57.4 A / 52.2 A	63.8 A / 58.0 A	80 A / 72.2 A
Power Factor / Power Factor Range	1 (0.8 Leading ... 0.8 Lagging)		
Phase	3L / N / PE		
Total Current Waveform Distortion Rate	≤3% (Rated power)		
<b>Efficiency &amp; Protection</b>			
Max. Efficiency / European Efficiency	98.7% / 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		
<b>General Data</b>			
Dimensions (W x H x D)	574 * 513.5 * 234.5 mm		
Weight	29.5 kg	30.5 kg	
Operation Temperature	-25 °C ~ 60 °C		
Nighttime Self-Consumption	<1 W		
Topology	Transformerless		
Cooling	Smart force air cooling		
Protection Rating	IP66		
Operation Humidity	0 ~ 100%		
Max. Operating Altitude	3000 m		
<b>Features</b>			
DC Input Connector	Vaconn / Jinko		
AC Output Connector	OT Connector		
Display	LED, APP		
Communication	4G, RS485		
Certification	NB/T 32004		