



SI SERIES

PV String Inverter

Three Phase

5kW | 6kW | 8kW | 10kW | 15kW | 20kW | 25kW



High-Efficiency



Max. efficiency up to 98.7%



Max. 150% PV oversizing,
110% AC overloading output



Low startup voltage and wide
voltage range



2 MPPT design with smart
MPPT algorithm

Safe & Reliable

- IP65 protection

- Multiple protections levels

- Aluminum unibody housings structure

- AI powered AFCI protection (optional)

- Build-in SPD type II

Smart

- Smart IV curve scanning

- Built-in export power control

- Multiple monitoring methods supported (Optional: Wi-Fi / LAN / GPRS)

- Remote firmware upgrade with simple operation

	SI-3P5K-Y1	SI-3P6K-Y1	SI-3P8K-Y1	SI-3P10K-Y1	SI-3P15K-Y1	SI-3P20K-Y1	SI-3P25K-Y1
PV Input Data							
Max. DC Power (W)	7500	9000	12000	15000	22500	30000	37500
Max. DC Voltage (V)	1100						
MPPT Voltage Range (V)	150 - 1000						
MPPT Full Power Voltage Range (V)	200 - 850		300 - 850		500 - 850		
Rated Input Voltage (V)	620						
Start-up Voltage (V)	150						
Max. Input Current (A)	15 x 2			20 + 30		32 x 2	
Max. Short Current (A)	25 x 2			30 + 48		48 x 2	
No. of MPP Tracker / No. of PV String	2 / 2			2 / 3		2 / 4	
Input Connector Type	MC4						
AC Output Data							
Max. Output Power (VA)	5500	6600	8800	8800	16500	22000	27500
Nominal Output Power (W)	5000	6000	8000	8000	15000	20000	25000
Max. Output Current (A)	8.5	10.5	13.5	13.5	27	32	40
Nominal Output Voltage (V)	3P + N + PE / 3P + PE 230 / 400						
Grid Voltage Range	260 Vac - 519 Vac (according to local standard)						
Nominal Output Frequency (Hz)	50 / 60						
Grid Frequency Range	45 - 55 Hz / 55 - 65 Hz (according to local standard)						
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)						
Output Current THD	<3%						
Efficiency							
Max. Efficiency	98.3%		98.70%	98.70%	98.75%	98.75%	
Euro Efficiency	98%	98.05%	98.23%	98.23%	98.35%	98.35%	
Protection							
PV Reverse Polarity Protection	YES						
PV Insulation Resistance Detection	YES						
AC Short Circuit Protection	YES						
AC Over Current Protection	YES						
AC Over Voltage Protection	YES						
Anti-Islanding Protection	YES						
Residual Current Detection	YES						
Over Temperature Protection	YES						
Integrated DC switch	YES						
Surge Protection	Integrated (Type II)						
Smart IV Curve Scanning	YES						
Quick Arc Fault Circuit interruption	Optional						
General Data							
Dimensions (W x H x D, mm)	370 x 510 x 167	370 x 510 x 192		370 x 535 x 192	370 x 535 x 192	370 x 535 x 192	370 x 535 x 192
Weight (kg)	16			17		19	
Protection Degree	IP66						
Enclosure Material	Aluminum						
Ambient Temperature Range (°C)	-25 to 60						
Humidity Range	0 - 100%						
Topology	Transformerless						
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)						
Cooling Concept	Intelligent fan cooling						
Noise Emission (db)	<30			<40		<51	
Night Power Consumption (W)	<1						
Max. Operation Altitude (m)	≤4000						
Certifications and Standards							
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12						
Safety Standard	IEC 60068, UL1741, EN62109						
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727						