

Grid Tied Solar String Inverters

250 kW to 255 kW (3Ph.)



- Wide DC input range
- True three phase bridge, transformerless topology
- Low sensitivity to the grid disturbance to avoid unnecessary disconnection from the grid
- Up to 3 independent MPPT to ensure optimal energy harvest
- MPPT accuracy is more than 99.9%
- Wide operating temperature range from 20°C to 60°C
- IP 65 protection for Indoor & outdoor application
- · Easy to install & maintain
- DC power overloading
- User friendly interface like RS 485/Wi-Fi
- Easy to read LCD display with all operational status & necessary data as per requirement
- Reactive power controller
- Type III SPD (Surge Protection Device)
- String current monitoring
- Low Voltage Ride Through (LVRT) compliance
- Remote monitoring using a mobile based application through GPRS/Wi-Fi



Technical Standards

No.	IEC Standard	IEC Certificate	
1	Environmental Testing	IEC 60068-2 (1,2,14,30)	
2	Efficiency Measurement	IEC 61683	
3	Product Safety Standard	IEC 62109-1, 2	
4	Grid Connectivity Standard/ Utility Interface	IEC 61727	
5	Test Procedure for Islanding Prevention Measures for Utility Interconnected PV Inverters	IEC 62116 IEEE1547 IEEE1547.1	
6	Electromagnet Compatibility & Electro Magnet Interference	IEC 61000-6-1 IEC 61000-6-3 IEC 61000-3-2 IEC 61000-3-3	



Technical Specifications

Solar String Inverter - 250 kW to 255 kW (3Ph.)

Hiverter Si Series Three Phase		Si-250K-HV	Si-255K-HV
Max. input voltage		1500V	
	Rated input voltage	1080V	
	Start-up voltage	550V	
Input (DC)	MPPT operating voltage range	180V- 1000V	
	Full power MPPT voltage range	800V-1300V	
	Number of MPP trackers	12	
	Number for DC inputs	24	
	Max. input current per MPPT	30A x 12	
	Max. input short circuit current per MPPT	50A x 12	
	AC output power	250kVA@30°C / 235kVA@40°C / 250kVA, 1250V@50°C	255kVA@30°C / 235kVA@40°C / 250kVA, 1250V@50°C
	Max. output current	180.5A	184A
	Nominal grid voltage	3/PE, 800Vac	
0	Grid voltage range	640Vac-920VVac	
Output (AC)	Nominal frequency	50/60Hz	
	Grid frequency range	45~55Hz / 55~ 65Hz (According to local standard)	
	Active power adjustable range	0-100%	
	TH Di	<3%	
	Power factor	1 default (adjustable±0.8)	
D (Max. Efficiency	99.01%	
Performance	European weighted efficiency up to	98.80%	
	DC reverse polarity protection	Yes	
	Anti-islanding protection	Yes	
	Leakage current protection	Yes	
	Ground fault monitoring	Yes	
	PV-array string fault monitoring	Yes	
Protection	Zero voltage ride through	Yes	
	DC switch	Yes	
	Anti-PID protection	Optional	
	AFC!	Optional	
	Protection class/Overvoltage category	I/III	
	Input/Output SPD	PV: type II standard, AC: type II standard	
Communication	Communication	RS485 /USB /Bluetooth, Opt	tional: WiFi /GPRS /PLC
	Ambient temperature range	-30°C ~ +60°C	
	Self-consumption at night	<2W	
	Topology	Transformer less	
	Degree of protection	IP66	
	Allowable relative humidity range	0-100%	
0	Max. operating altitude	4000m	
General Data	Noise	≤60 Db	
	Weight	99kg	
	Cooling	Smart forced air cooling	
	Dimension (L*W*H)	1100.5 x 713.5 x 368mm	
	Display	LCD & Bluetooth + APP	
Standard	EMC	EN 61000-6-2, EN 61000-6-4	
	Safety standard	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068 (1,2,14,30)	

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