

Grid Tied Solar String Inverters

HIVERTER-Si-N Series 110 kW & 125 kW - Three Phase (1100 VDC)





Key Features

- Wide DC input range
- True three phase bridge, transformerless topology
- Low sensitivity to the grid disturbance to avoid unnecessary disconnection from the grid
- 10 independent MPPT to ensure optimal energy harvest
- MPPT accuracy is more than 99%
- Wide operating temperature range from -30°C to 60°C
- IP66 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 II SPD (Surge Protection Device)
- String current monitoring
- Low Voltage Ride Through (LVRT) compliance
- Remote monitoring using a mobile based application through 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	
6	Electromagnet Compatibility	IEC 61000-6-2 IEC 61000-6-3 IEC 61000-3-11 IEC 61000-3-12	



Technical Specifications

Solar String Inverter - 110 kW & 125 kW (3Ph.)

HIVERTER-Si-N Three Phase, 10		Si-110K-N	Si-125K-N	
,	Recommended PV input power	150 kWp	165 kWp	
Input (DC)	Max. input voltage	1100 V		
	Rated input voltage	625 V		
	Start-up voltage	200 V		
	MPPT operating voltage range	180 V - 1000 V		
	Full power MPPT voltage range	500V - 850V		
	Number of MPP trackers	10		
	Number for DC inputs	20		
	Max. current per MPPT	10 x 40A		
	Max. input short circuit current	10 x 50A		
Output (AC)	AC output power	110 kVA @ 45°C / 100 kVA @ 50°C	125 kVA @ 45°C / 110 kVA @ 50°C	
	Max. output current	167.2 A@380 V / 159.5 A@400 V / 153.1 A@415 V	190 A@380 V / 181.2 A@400 V / 174 A@415 V	
	Ratedl grid voltage	3 / N / PE, 380 V	/ / 400 V / 415 V	
	Grid voltage range	310 - 480 Vac		
	Nominal frequency	50 / 6	50 / 60 Hz	
	Grid frequency range	45~55 Hz / 55~65 Hz		
	Active power adjustable range	0~100%		
	TH Di	< 1%(@1	< 1%(@100% P)	
	Power factor	1 default (adjustable ± 0.8)		
	Max. Efficiency	98.60%		
Efficiency	European weighted efficiency up to	98.30%		
	DC reverse polarity protection	Ye	Yes	
	Anti-islanding protection	Yes		
	Leakage current protection	Ye	Yes	
	Ground fault monitoring	Ye	Yes	
	PV-array string fault monitoring	Ye	Yes	
Protection	DC switch	Yes		
	PID recovery	Yes		
	AFCI	Yes		
	SPD protection	PV: type II standard, AC: type II standard		
Communication	Standard Communication Mode	RS 485, WiFi		
	Ambient temperature range	-30°C ~ +60°C		
	Topology	Transformer less		
	Degree of protection	IP 66		
General Data	Allowable relative humidity range	0 - 100%		
	Max. operating altitude	4000 m (> 3000 m derating)		
	Weight	75 kg		
	Cooling	Smart forced air cooling		
	Dimension	970 x 695 x 325 mm		
	Display	LCD & Bluetooth + APP		
	EMC	EN 61000 - 6 - 2, EN 61000 - 6 - 3, EN 61000 - 3 - 11, EN 61000 - 3 - 12		
	Safety standard	IEC 62109 - 1/2, IEC 62116, IEC 61727, IE	IEC 62109 - 1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068 (1,2,14,30), IEC 60255	
Standard	Grid standards	VDE V 0124 - 100, V 0126 -1 -1, VDE - AR- N 4105, CEI 0 - 21 / CEI 0 - 16, UNE 206 007 - 1, EN 50549, G98 / G99, EN 50530		

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Gandhinagar Facility: B-14/1 & 171, GIDC Electronics Zone, Sector - 25, Gandhinagar - 382 028, Gujarat, India. Tel: +91-79-6170 0500





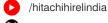




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