

## Grid Tied Solar String Inverters

HIVERTER-Si-N Series  
110 kW & 125 kW (3Ph.)

NEW  
GENERATION

### 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 99.9%
- 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

HIVERTER-Si-N Series Three Phase, 10 MPPT		Si-110K-N	Si-125K-N
Input (DC)	Max. input voltage	1100V	
	Rated input voltage	625V	
	Start-up voltage	200V	
	MPPT operating voltage range	180V-1000V	
	Full power MPPT voltage range	500V-850V	
	Number of MPP trackers	10	
	Number for DC inputs	20	
	Max. current per MPPT	10x40A	
	Max. input short circuit current	10x50A	
Output (AC)	AC output power	110kVA	125kVA
	Max. output current	167.2A@380V / 159.5A@400V / 153.1A@415V	190A@380V / 181.2A@400V / 174A@415V
	Rated grid voltage	3/N/PE, 380V / 400V / 415V	
	Grid voltage range	310-480Vac	
	Nominal frequency	50/60Hz	
	Grid frequency range	45~55Hz / 55~65Hz	
	Active power adjustable range	0~100%	
	TH Di	<1%(@100%P)	
	Power factor	1 default (adjustable ± 0.8)	
Efficiency	Max. Efficiency	98.60%	
	European weighted efficiency up to	98.30%	
Protection	DC reverse polarity protection	Yes	
	Anti-islanding protection	Yes	
	Leakage current protection	Yes	
	Ground fault monitoring	Yes	
	PV-array string fault monitoring	Yes	
	DC switch	Yes	
	PID recovery	Yes	
	AFCI	Yes	
	SPD protection	PV: type II standard, AC: type II standard	
Communication	Standard Communication Mode	RS485, WiFi	
General Data	Ambient temperature range	-30°C ~ +60°C	
	Topology	Transformer less	
	Degree of protection	IP66	
	Allowable relative humidity range	0-100%	
	Max. operating altitude	4000m	
	Weight	75kg	
	Cooling	Smart forced air cooling	
	Dimension	970x695x325mm	
	Display	LCD & Bluetooth + APP	
Standard	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, IEC 61683, IEC 60068 (1,2,14,30), IEC 60255	
	Grid standards	VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G98/G99, EN50530	

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