

Grid Tied Solar String Inverters

HIVERTER-Si-N Series
3 kW & 6 kW - Single Phase

NEW
GENERATION

Key Features

- Wide DC input range
- Transformer less topology
- Low sensitivity to the grid disturbance to avoid unnecessary disconnection from the grid
- 2 independent MPPT to ensure optimal energy harvest
- MPPT accuracy is more than 99%
- Wide operating temperature range from -30°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
- Type III SPD (Surge Protection Device)



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 & Electro Magnet Interference	IEC 61000-6-2 IEC 61000-6-4

Technical Specifications

Solar String Inverter – 3 kW to 6 kW (1Ph.)

HIVERTER-Si-N Series Single Phase with Dual MPPT		Si-3K-N		Si-3.6K-N		Si-4K-N		Si-4.6K-N		Si-5K-N		Si-6K-N	
Input (DC)	Recommended PV input power	4.5 kWp		5.4 kWp		6 kWp		7 kWp		7.5 kWp		9 kWp	
	Max DC power for single MPPT	3.5 kW		3.5 kW		3.5 kW		3.5 kW		3.75 kW		4.5 kW	
	Number for independent MPPT	2											
	Number for DC inputs	1 for each MPPT											
	Max. input voltage	600 V											
	Start-up input voltage	90 V											
	Rated input voltage	380 V											
	MPPT voltage range	80 V - 550 V											
	Full load DC voltage range	200 V - 500 V		200 V - 500 V		200 V - 500 V		200 V - 500 V		210 V - 500 V		260 V - 500 V	
	Max. input MPPT current	15 A / 15 A											
Max. DC input short circuit current per MPPT	22.5 A / 22.5 A												
Output (AC)	Rated power	3 kW		3.68 kW		4 kW		4.6 kW		5 kW		6 kW	
	Max. AC power	3.3 kVA		3.68 kVA		4.4 kVA		4.6 kVA		5.5 kVA		6 kVA	
	Max. output current	15 A		16 A		20 A		23 A		25 A		29 A	
	Nominal grid voltage	L / N / PE, 230 Vac											
	Grid voltage range	180 Vac - 276 Vac (According to local standard)											
	Nominal frequency	50 Hz / 60 Hz											
	Grid frequency range	45 Hz - 55 Hz / 55 Hz - 65 Hz (According to local standard)											
	Active power adjustable range	0~100%											
	THDi	<3%											
	Power factor	1 default (adjustable+/-0. 8)											
Performance	Max. Efficiency up to	98.11%		97.82%		98.11%		97.78%		97.85%		97.84%	
	European weighted efficiency up to	97.3%						97.5%					
	Self-consumption at night	<1W											
Protection	DC reverse polarity protection	Yes											
	DC switch	Optional											
	Protection class/Overvoltage category	I / III											
	Safety protection	Anti - islanding, RCMU, Ground fault monitoring											
	Input / Output SPD	MOV: type III standard											
Communication	Standard Communication mode	Rs485/ USB/ Bluetooth (Optional: Wi-Fi)											
General Data	Ambient temperature range	-30℃~-+60℃											
	Topology	Transformer - less											
	Degree of protection	IP 65											
	Allowable relative humidity range	0~100%											
	Max. operating altitude	4000 m											
	Noise	<25 dB											
	Weight	9.2 kg						10 kg					
	Cooling	Natural											
	Dimension (mm)	349*344*164 mm											
	Display	LCD & Bluetooth + APP											
	Standard Warranty	5 Years (Optional: 7 & 10 Years)											
Standard	EMC	EN 61000 - 6 - 2, EN 61000 - 6 - 3, EN 61000 - 3 - 2, EN 61000 - 3 - 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)											
	Grid standards	VDE - AR - N 4105, DE V 0126 - 1 - 1, V 0124 - 100, AS / NZS 4777, CEI 0 - 21, G98 / G99, C10 / 11, EN 50549, RD 1699											

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In the spirit of innovation, specifications and features are subject to change without notice.



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