HITACHI Inspire the Next

Grid Tied Solar String Inverters

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



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

Grid Tied Solar String Inverter

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	
	Recommended PV input power	4.5 kWp	5.4 kWp	6 kWp	7 kWp	7.5 kWp	9 kWp	
Input (DC)	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 210 V - 500 V 260 V - 500						
	Max. input MPPT current	15 A / 15 A						
	Max. DC input short circuit current per MPPT	22.5 A / 22.5 A						
	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)						
Output (AC)	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)						
	Max. Efficiency up to	98.11%	97.82%	98.11%	97.78%	97.85%	97.84%	
Performance	European weighted efficiency up to		97.3%			97.5%		
	Self-consumption at night	<1W						
	DC reverse polarity protection	Yes						
	DC switch	Optional						
Protection	Protection class/Overvoltage category	1 / 111						
	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)						
2 Junior and a second	Ambient temperature range	-30℃~+60℃						
	Тороlоду	Transformer - less						
	Degree of protection	IP 65						
	Allowable relative humidity range	0~100%						
	Max. operating altitude	4000 m						
General Data	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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