

Grid Tied Solar String Inverters

HIVERTER-Si Series
1.1 kW to 3.3 kW – Single Phase



- Wide DC input range
- Transformer less topology
- Low sensitivity to the grid disturbance to avoid unnecessary disconnection from the grid
- 1 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)
- 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		
6	Electromagnet Compatibility & Electro Magnet Interference	IEC 61000-6-2 IEC 61000-6-4		



Technical Specifications Solar String Inverter – 1.1 kW To 3.3 KW (1Ph.)

HIVERTER-Si Series Single Phase with Single MP	PT	Si-1.1K-H3	Si-1.6K-H3	Si-2.2K-H3	Si-2.7K-H3	Si-3K-H3	Si-3.3K-H	
	Recommended PV input power	1500 W	2200 W	3000 W	3700 W	4100 W	4500 W	
	Max. input voltage	500 V	500 V	500 V	550 V	550 V	550 V	
	Start-up input voltage	70 V						
	Rated input voltage	360 V						
	MPPT voltage range	50 - 500 V 50 - 550 V						
Input (DC)	Full load DC voltage range	110 - 450 V	150 - 450 V	200 - 450 V	250 - 500 V	275 - 500 V	300 - 500 \	
	Max. input MPPT current			12	2 A			
	Max. DC input short circuit current per MPPT	15 A						
	Number of MPPT/String per MPPT	1/1						
	Input terminal type	MC 4						
	Rated power	1.1 kW	1.6 kW	2.2 kW	2.7 kW	3 kW	3.3 kW	
	Max. AC power	1.1 kVA	1.6 kVA	2.2 kVA	2.7 kVA	3 kVA	3.3 kVA	
	Max. output current	5.3 A	7.7 A	10.6 A	13 A	14.5 A	16 A	
	Nominal grid volatge	L / N / PE, 230 Vac						
Output (AC)	Grid voltage range	180 Vac-276 Vac (According to local standard)						
	Nominal frequency	50 / 60 Hz						
	Grid frequency range	45~55 Hz / 55~66 Hz (According to local standard)						
	THDi	<3%						
	Power factor	1 default (adjustable ±0.8)						
C#ining and the	Max. Efficiency up to	97.43%	97.50%	97.47%	97.38%	97.20%	97.20%	
Efficiency up to	European weighted efficiency		96.9%			97.2%		
	Anti-Islanding protection	Yes						
	DC reverse polarity protection	Yes						
	Over temp protection	Yes						
Don't ation	Leakage current protection	Yes						
Protection	Over voltage protection	Yes						
	Over current protection	Yes						
	Earth fault protection	Yes						
	SPD	MOV: Type III standard						
Communication	Standard Communication mode	Rs 485, USB (Optional: Wi-Fi / Ethernet)						
	Topology	Transformer less						
	Ambient temperature range	-30°C ~ +60°C						
	Allowable relative humidity range	0~100%						
	Noise	<25 dB						
	DC switch	Optional						
0	Cooling	Natural convection						
General Data	Max. operating altitude	2000 m						
	Dimension	303 x 260.5 x 118 mm 321 x 260.5 x 131.5 mm						
	Support bracket	Wall - mounted						
	Weight	5.5 kg 6.3 kg						
	Display	LCD + LED						
	Degree of protection	IP 65						
	EMC	EN 61000 - 6 - 1, EN 61000 - 6 - 2, EN 61000 - 6 - 3, EN 61000 -6 - 4,						
	Safety standard	IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 62109 - 1/2						
Standard	Grid standards	AS 4777, VDE V 0124 - 100, VDE V 0126 - 1 - 1, VDE -AR -N 4105, EN 50438, G83 / 2, C10 / 11, RD 1699						

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