

Grid Tied Solar String Inverters

HIVERTER-Si-N Series 60 kW to 80 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
- 6 independent MPPT to ensure optimal energy harvest
- MPPT accuracy is more than 99%
- Wide operating temperature range from -30°C to 60°C
- IP 66 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 & Electro Magnet Interference	IEC 61000-6-2 IEC 61000-6-4	



Technical Specifications Solar String Inverter – 60 kW & 80 kW (3Ph.)

HIVERTER-Si-N Series Three Phase with Six MPPT		Si-60K-N	Si-80K-N	
	Recommended PV input power	90 kWp	120 kWp	
	Number for independent MPPT	6		
	Number for DC inputs	2 Per MPPT		
	Max. input voltage	1100 V		
	Start-up input voltage	200 V		
Input (DC)	Rated input voltage	620 V		
	MPPT voltage range	180 - 1000 V		
	Full load DC voltage range	550V - 800 V		
	Max. input MPPT current	6 x 32 A 6 x 40 A		
	Max. DC input short circuit current per MPPT	6 x 50 A	6 x 60 A	
	Rated power	60 kW	80 kW	
	Max. AC power	66 kVA	88 kVA	
	Max. output current	100 A	133.3 A	
	Nominal grid voltage	3 / N / PE, 230 / 400 Vac		
Outrout (AC)	Grid voltage range	310 - 480 Vac (according to local standard)		
Output (AC)	Nominal frequency	50 / 60 Hz		
	Grid frequency range	45~55 Hz / 55~65 Hz (according to local standard)		
	Active power adjustable range	0~100%		
	THDi	<3%		
	Power factor	1 default (adjustable ±0. 8)		
	Max. Efficiency up to	98.70%		
Performance	European weighted efficiency up to	98.20%		
	Self-consumption at night	<2W		
	DC reverse polarity protection	Yes		
	Anti-islanding Protection	Yes		
	Leakage Current protection	Yes		
	Ground Fault monitoring	Yes		
Protection	PV-array string fault monitoring	Yes		
	Anti-reverse power function	Yes		
	DC Switch	Yes		
	Input / Output SPD	PV: type II standard, AC: type II standard		
Communication	Standard Communication mode	RS 485 / Bluetooth (Option	RS 485 / Bluetooth (Optional: WIFI / Ethernet)	
	Ambient temperature range	-30℃~+60℃		
	Topology	Transformer - less		
	Degree of protection	IP 66		
	Allowable relative humidity range	0~100%		
	Max. operating altitude	4000 m		
General Data	Weight	50 kg		
	Cooling	Fan		
	Dimension (mm)	687*561*275 mm		
	Display	LCD, App via Bluetooth		
	Standard Warranty	5 years (Optional: 7 & 10 years)		
	EMC	EN 61000 - 6 - 2, EN 61000 - 6 - 3, EN		
Standard	Safety standard	IEC 62109 - 1 / 2, IEC 62116, IEC 61727, IEC 6	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		

Registered Office: B-52, Corporate House, Near Judges Bunglow, Bodakdev, Ahmedabad-380054, Gujarat, India. Tel: +91-79-6604 6200, Fax: +91-79-6604 6243

Manufacturing Works: Plot No. SM 3 & 4, Sanand GIDC II, Industrial Estate, Bol Village, Sanand-382 110, Gujarat, India. Tel: +91-2717-678 777, Fax: +91-2717-678 700

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

€ Helpline No.: (080) 6112 0800 (For Sales & Service Support)
Service Support
Service Support
Contact@hitachi-hirel.com
Www.hitachi-hirel.com











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