

# HITACHI

## Product Portfolio

## Grid Tied Solar String Inverters

HIVERTER-Si-N Series - 4 kW to 6 kW - Single Phase

### Key Features

- Wide DC input range
- True three phase bridge, 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
- IP65 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)



### Applicable IEC Standards

No.	IEC Standard Description	IEC Certificate No
1	Environmental Testing	IEC 60068-2-1:2007 IEC 60068-2-2:2007 IEC 60068-2-14:2009 IEC 60068-2-30:2014
2	Efficiency Measurement	IEC 61683: 1999
3	Product Safety Standard	IEC 62109-1:2010 IEC 62109-2:2011
4	Grid Connectivity Standard / Utility Interface	IEC 61727: 2004
5	Test Procedure for Islanding Prevention Measures for Utility Interconnected PV Inverters	IEC 62116: 2014
6	Electromagnet Compatibility & Electro Magnet Interference	IEC 61000-6-2: 2016

# Technical Specifications

## Solar String Inverter – 4 kW to 6 kW (1Ph.)

<b>Hiverter Si-N Series</b> Single Phase with Dual MPPT	<b>Si-4K-N</b>	<b>Si-4.6K-N</b>	<b>Si-5K-N</b>	<b>Si-6K-N</b>
<b>Input (DC)</b>				
Recommended PV input power	6 kWp	7 kWp	7.5 kWp	9 kWp
Max DC power for single MPPT	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	210 V-500 V	260 V-500 V
Max. input current per MPPT	15 A / 15 A			
Max. DC input short circuit current per MPPT	22.5 A / 22.5 A			
<b>Output (AC)</b>				
Rated power	4 kW	4.6 kW	5 kW	6 kW
Max. AC power	4.4 kVA	4.6 kVA	5.5 kVA	6 kVA
Max. output current	20 A	23 A	25 A	29 A
Nominal grid voltage	L / N / PE, 230 Vac			
Grid voltage range*	180Vac-276Vac (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)			
<b>Performance</b>				
Max. Efficiency up to	98.11%	97.78%	97.85%	97.84%
European weighted efficiency up to	97.3%		97.5%	
Self-consumption at night	<1W			
<b>Protection</b>				
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			
<b>Communication</b>				
Standard Communication mode	RS 485 / USB / Bluetooth (Optional: WIFI)			
<b>General Data</b>				
Ambient temperature range	-30°C~+60°C			
Topology	Transformer - less			
Degree of protection	IP65			
Allowable relative humidity range	0~100%			
Max. operating altitude	4000m			
Noise	<25dB			
Weight	9.2 kg		10 kg	
Cooling	Natural			
Dimension	349*344*164 mm			
Display	LCD & Bluetooth + APP			
Standard Warranty	5 Years (Optional: 7 & 10 Years)			

\*AC Over Voltage and Under Voltage protection is as per CEA guidelines & set by default as per CEA guideline. Mentioned range is for global level.

### Hitachi Hi-Rel Power Electronics Pvt. Ltd.

**Registered Office:** B-52, 5th Floor, Corporate House, Near Judges Bungalow, Bodakdev, Ahmedabad - 380054, Gujarat, India

**Manufacturing Works:** Plot No. SM 3 & 4, Sanand GIDC II, Industrial Estate, Bol Village, Sanand - 382170, Gujarat, India.

**Gandhinagar Facility:** B-14/1 & 171, GIDC Electronics Zone, Sector - 25, Gandhinagar - 382028, Gujarat, India.

**Helpline No.:** (080) 6112 0800 (For Sales & Service Support) [www.hitachi-hirel.com](http://www.hitachi-hirel.com)

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



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