

# HITACHI

## Product Portfolio

## Grid Tied Solar String Inverters

HIVERTER-Si-N Series - 250 kVA & 350 kVA (3 Ph.)

### 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
- 6/8 independent MPPT to ensure optimal energy harvest
- MPPT accuracy is more than 99%
- Wide operating temperature range from -30°C to 60°C
- IP66 protection for Indoor & outdoor application
- Easy to install & maintain
- DC power overloading
- User friendly interface like RS 485/Wi-Fi
- Easy to install & maintain
- 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



### Applicable IEC Standard

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: 2019 IEC 61000-6-4: 2019
7	Overall efficiency of grid connected photovoltaic inverters	EN 50530: 2010 + A1:2013
8	Product safety requirements for measuring relays and protection equipment having a rated a.c. voltage up to 1000 V	IEC 60255-27:2013

# Technical Specifications

## Solar String Inverter - 250 kVA & 350 kVA (3Ph.)

Hiverter Si Series Three Phase	HIVERTER Si-250K-N0	HIVERTER Si-350K-N0
<b>Input (DC)</b>		
Max. input voltage	1500V	
Rated input voltage	1160V	
Start-up voltage	550V	
MPPT operating voltage range	500 - 1500Vdc	
Number of MPPT's	6	8
Number for DC inputs	24	32
Max. input MPPT current	6* 60A	8* 60A
Max. input short circuit current	6* 100A	8* 100A
<b>Output (AC)</b>		
AC output power	250kVA@55°C	352kVA@35°C/310kVA@50°C/300kVA@52°C
Max. output current	180.5A	254.1A
Rated output voltage	3/PE, 800Vac	
Rated output frequency	50/60Hz	
Output frequency range	45~55Hz / 55~ 65Hz (According to local standard)	
Active power adjustable range	0-100%	
THDi	<3%	
Power factor	1 (adjustable +/- 0. 8)	
<b>Performance</b>		
Max. Efficiency	99.05%	
European weighted efficiency	98.80%	
<b>Protection</b>		
DC reverse polarity protection	Yes	
Anti-islanding protection	Yes	
Leakage current protection	Yes	
Ground fault monitoring	Yes	
PV-array string fault monitoring	Yes	
DC switch	Yes	
SPD	PV: type II standard, AC: type II standard	
<b>General Data</b>		
Ambient temperature range	-30°C -- +60°C	
Topology	Transformer less	
Degree of protection	IP66	
Allowable relative humidity range	0-100%	
Max. operating altitude	4000m	
Cooling	Smart air cooling	
Dimension	1159*828*366 mm	
Weight	<111kg	<113kg
Display	LED, Bluetooth + APP	
Communication	RS485, PBUS	

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

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



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