

Navgrun

SMART ENERGY. **STRONGER FUTURE.**

Advanced Inverters for
Maximum Performance



**HIGH
EFFICIENCY**



**SMART
MONITORING**



**RELIABLE
PROTECTION**

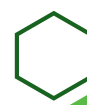


**SUSTAINABLE
ENERGY**

Nithin Sai Renewables Pvt Ltd

 www.navgrun.com

 info@navgrun.com



Grid Tied Solar String Inverters

110 Kw to 125 Kw – Three Phase (1100 VDC)

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
- 10 independent MPPT to ensure optimal energy harvest
- MPPT accuracy is more than 99.9%
- 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

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Technical Specifications

Solar String Inverter 110 Kw To 125 Kw(3Ph.)

INVERTER- SERIES THREE PHASE WITH 10 MPPT		SI-110K-N	SI-125K-N
Input (DC)	Recomended PV Input Power	165 KWp	190 KWp
	Max. Input Voltage	1100 V	
	Rated Input Voltage	625 V	
	Start-Up Voltage	200 V	
	MPPT Operating Voltage Range	180V-1000 V	
	Full Power MPPT Voltage Range	500V - 850V	
	Number of MPPT Trackers	10	
	Number of DC Inputs	20	
	Max Current per MPPT	10 X 40 A	
	Max Input Short Circuit Current	10 X 50 A	
Output(AC)	AC Output Power	110 KVA	125 KVA
	Max. Output Current	167.2 A@380 V / 159.5A@ 400 V/153.1 A@415V	190 A@380 V / 181.2 @ 400 V/174 A@415V
	Rated Grid Voltage	3 / N / PE, 380 V / 400 V/ 415V	
	Grid Voltage Range	310 Vac ~ 480 Vac	
	Nominal Frequency	50 / 60 Hz	
	Grid Frequency Range	45-55Hz / 55-65Hz	
	Active Power Adjustable Range	0-100%	
	THDi	<1%(@100%P)	
	Power Factor	1 default (adjustable ±0.8)	
Efficiency Up To	Max.Efficiency Up to	98.60%	
	European Weighted Efficiency	98.30%	
Protection	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	
	PID Recovery	YES	
	AFCI	YES	
	SPD Protection	PV: Type II standard, AC: Type II Standard	
Communication	Standard Communication Mode	Rs 485, WIFI	
General Data	Ambient Temperature Range	-30°C ~ +60°C	
	Topology	Transformer less	
	Degree of Protection	IP66	
	Allowed Relative Humidity Range	0-100%	
	Max. Operating Altitude	4000 m	
	Weight	75 Kg	
	Cooling	Smart Forced Air Cooling	
	Dimensions	970*695*325 mm	
	Display	LCD & Bluetooth + APP	
Standard	EMC	EN 61000 - 6 - 2, EN 61000 - 6 - 3, EN 61000 - 3 - 11, EN 61000 - 3 - 12	
	Safety Standards	IEC 62109 - 1/2 ,IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 60255	
	Grid Standards	VDE V 0124 - 100, VDE V 0126 - 1 - 1, VDE -AR -N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1,EN50549, G98/G99, EN50549, G98/G99, EN50530	

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Contact Us

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