

Navgrun

SMART ENERGY. **STRONGER FUTURE.**

Advanced Inverters for
Maximum Performance



**HIGH
EFFICIENCY**



**SMART
MONITORING**



**RELIABLE
PROTECTION**

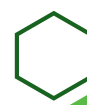


**SUSTAINABLE
ENERGY**

Nithin Sai Renewables Pvt Ltd

 www.navgrun.com

 info@navgrun.com



Grid Tied Solar String Inverters

25 Kw to 50 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
- 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 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
- 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 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

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Technical Specifications

Solar String Inverter 25 Kw To 50 Kw(3Ph.)

INVERTER- SERIES THREE PHASE WITH THREE / FOUR MPPT		SI-25K-N	SI-30K-N	SI-33K-N	SI-36K-N	SI-40K-N	SI-45K-N	SI-50K-N
Input (DC)	Recomended PV Input Power	37.5KWp	45KWp	49.5KWp	54KWp	60KWp	67.5KWp	75KWp
	Max DC Power for Single MPPT	25KWp						
	Number of Independent MPPT	3	3	3	3	4	4	4
	Number of DC Inputs	6	6	6	6	8	8	8
	Max. Input Voltage	1100 V						
	Start-Up Input Voltage	200 V						
	Rated Input Voltage	620 V						
	MPPT Operating Voltage Range	180-1000 V						
	Full Power MPPT Voltage Range	480 – 850V	480 – 850V	510 – 850V	540 –850V	480 – 850V	510 – 850V	540 – 850V
	Max. Input Current per MPPT	3 X 40					4 X 40	
	Max Dc Input Short Circuit Current per MPPT	3 X 50					4 X50	
Output(AC)	Rated Power	25 Kw	30 Kw	33 Kw	36 Kw	40 Kw	45 Kw	50 Kw
	Max. AC Power	28 KVA	34 KVA	37 KVA	40 KVA	44 KVA	49.5 KVA	55 KVA
	Max. Output Current	42.4 A	51.5 A	56 A	60.6 A	66.7 A	75 A	83.3 A
	Nominal Grid Voltage	3 / N / PE, 230 / 400 Vac						
	Grid Voltage Range	310 Vac – 480 Vac (According to Local Standard)						
	Nominal Frequency	50/60 Hz						
	Grid Frequency Range	45-55Hz / 55-66Hz (According to Local Standard)						
	Active Power Adjustable Range	0-100%						
	THDi	<3%						
	Power Factor	1 default (adjustable ±0.8)						
Efficiency Up To	Max.Efficiency Up to	98.60%				98.80%		
	European Weighted Efficiency	98.20%						
	Self-Consumption at night	<3W						
Protection	Anti islanding Protection	YES						
	DC Reverse Polarity Protection	YES						
	Leakage Current Protection	YES						
	Ground Fault Monitoring	YES						
	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 / USB / Bluetooth(Optional: Wi-Fi)						
General Data	Ambient Temparature Range	-30°C ~ +60°C						
	Topology	Transformer less						
	Degree Protection	IP 65						
	Allowed Relative Humidity Range	0-100%						
	Max. Operating Altitude	4000 m						
	Noise	<60 dB						
	Weight	36 Kg			37 Kg			
	Cooling	Fan						
	Dimensions	585*480*220 mm						
	Display	LCD & Bluetooth + APP						
	Standard Warrenty	5 Years (Optional: 7 & 10 Years)						
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	AS / NZS 4777, 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, NB/T32004						

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Contact Us

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