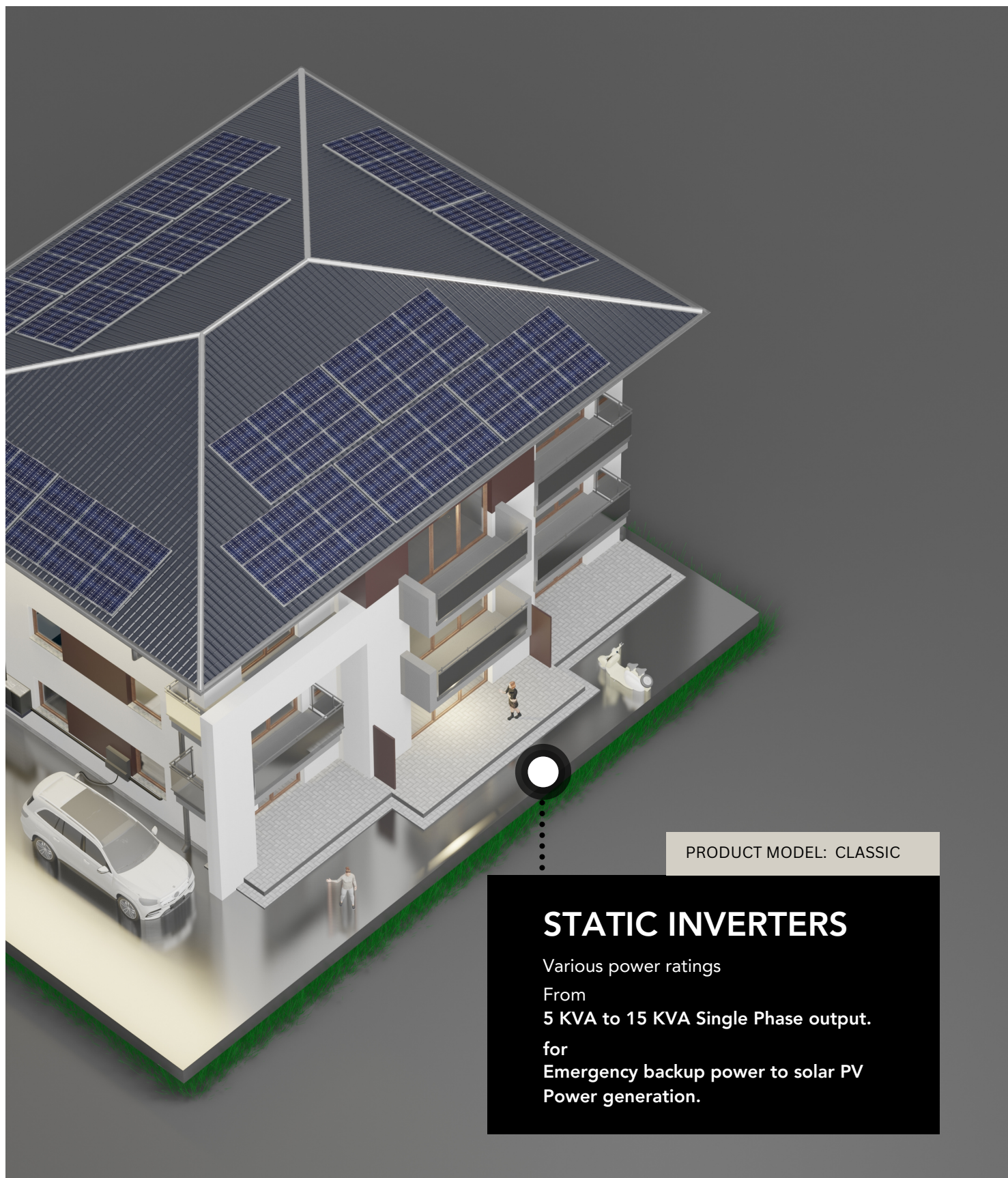


# STATIC INVERTERS

EMERGENCY POWER FOR COMMERCIAL AND INDUSTRIAL USE.

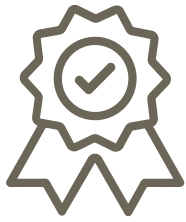


PRODUCT MODEL: CLASSIC

## STATIC INVERTERS

Various power ratings  
From  
5 KVA to 15 KVA Single Phase output.  
for  
Emergency backup power to solar PV  
Power generation.

# ABOUT US



Nishan Power is a certified company founded in 1993 to manufacture and retail quality power conditioning products. The company offers complete power conditioning solutions under one roof. Over the years, Nishan Power has evolved through sound knowledge of power conditioning needs. Today the company is a distinguished player in the industry.

## Core purpose

To become remarkable by leaving a mark of safety and comfort, using innovative ideas, thereby improving the lives of our customers.

## Core Values

Result-oriented innovation, Quality, Trustworthy, Commitment, Speed (aspirational)

## Our Products and Service areas,



**Apartments**



**Diagnostic Labs**



**Shops**



**Commercial**



**factories**



**Hospitals**



**Health Care**



**Textiles**



**CT Scan**

## Our products are recommended by,

- electrical consultants
- inverters and battery dealers
- HVAC dealers
- solar PV integrators
- automation and robots suppliers
- cnc machine suppliers
- offset printing machine suppliers
- turnkey factory automation contractors
- admin heads
- factory GM
- real estate developer
- hospitals



**electrical consultants**



**Admin Heads**



**offset printer**

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### Key features of Nishan Powermonk Static Inverter

1. Short circuit protection for both mains and inverter mode
2. Full bridge configuration based on IGBT half bridge module.
3. Microchip dsPIC based intelligent control.
4. **IGBT based static change-over** – no relay change-over.
5. LCD based display for user-friendly display of parameters and status.
6. Buzzer indication for battery low, overload, short circuit etc.
7. 2/4 - line LCD display options.
8. **No load shutdown and restart** when load is switched on for energy saving (optional)
9. Cut-off and auto restart with permanent cut after 5 consecutive cut offs.
10. SMPS type **four** stage charging with full charge cut-off and trickle charging.
11. Self-powered driver module with built-in isolated supply simplifies the design and reduces component count.
12. 20KHz switching frequency resulting in silent operation. No audible noise.
13. Pure sine wave output, Ideal for mixed load.
14. Inverter/UPS selection switch, micro switch, or ordinary switch selectable.
15. Protection against accidental output feedback disconnection.
16. Solar Upgradability.

### General specification For 3 KVA to 15 KVA Nishan Powermonk Static Inverter

1. Power Rating	:	3000 VA - 30000 VA
2. Control Device	:	dsPIC Digital Signal Processing
3. Power Devices	:	IGBT / MOSFETS
4. Input Battery Voltage	:	48 - 240 V DC
5. Output Voltage	:	220 V +/-1% AC SETTABLE
6. Output Frequency	:	50 HZ +/-1%
7. Output Waveshape	:	Sinusoidal
8. Output T. H. D	:	< 2 % With Resistive Load
9. Mains Charging	:	High efficiency PWM 4 step mode.
10. Mains Charging Current	:	Settable 15A MAX
11. Mains Charging Voltage	:	140 – 270 V AC
12. Mains to Inverter & Change – over	:	IGBT Based Static Switch
13. Solar Charging Priority	:	YES
14. Battery low level	:	Settable as per battery bank
15. Battery Full Charge cut off level	:	Settable as Per Battery Bank
16. Overload protection	:	Foldback Current Limiting
17. Short circuit protection	:	Trip after 3 sec.
18. Short. circuit restart	:	Auto after 15 secs (5 times)
19. Overload	:	112 % for 10 secs.
20. Overload restart	:	Automatic (5 times)
21. Display	:	LCD 1, 2 or 4 lines settable
22. Alarms FOR FAULTY CONDITIONS	:	Short circuit, overload, battery low
23. Setup	:	Through menu-driven setup

When The System Is in Bypass Mode Parameters Displayed	When the system is in inverter mode parameters displayed
<ul style="list-style-type: none"> <li>• Battery voltage</li> <li>• Inverter standby on/off</li> <li>• Mains voltage</li> <li>• Charger on/off</li> </ul>	<ul style="list-style-type: none"> <li>• Battery voltage/Inverter output voltage, Load</li> <li>• Solar charging /mains charging.</li> <li>• Inverter mode/Overload/Short circuit</li> <li>• Overload/Short circuit trip/Battery low voltage trip</li> </ul>

### No load shut down and load restart (optional)

Typically, in a 10KVA inverter if there is no load, the inverter will automatically shut down. During this shut down, the inverter will consume only 15mA. When there is a load of even 15 VA connected to the output, the inverter will detect the load and restart the system. This feature is optional and is helpful if the inverter is used for solar power generation.

### IGBT based static change over (optional)

The change-over is through IGBT switches and not relay. This means there is minimal change over delay and hence there is no chance for reboot of electronic instruments or computers.



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