

1.5kW Inverter / VFD



About Product

Unveiling the cutting-edge 1.5kW Inverter, meticulously designed to convert direct current (DC) electricity sourced from batteries and 3Ph AC line into a reliable and efficient variable alternating current (AC) output supply. Designed to cater to a wide range of applications in the Railways, our Inverter ensures a reliable and steady power output with its outstanding maximum power capacity of 1.5 kilowatts. Seamlessly integrating into existing electrical infrastructure, our advanced Inverter optimizes power conversion efficiency while enhancing the overall reliability of electrical systems. With innovative features such as robust protective mechanisms and efficient energy management capabilities, our product sets a new standard in power conversion technology.

Key Perks

Compact and Reliable Design



Our Inverter is designed with reliability in mind, offering a compact form factor that fits seamlessly into your system while delivering consistent power conversion

User-Friendly Interface



Enjoy a user-friendly interface that allows for easy setup, and adjustment, providing a hassle-free experience in controlling and optimizing your power conversion

Quiet Operation



Designed for low noise emissions, our Inverter operates silently, minimizing any disruptions in noise-sensitive environments

Robust Build Quality



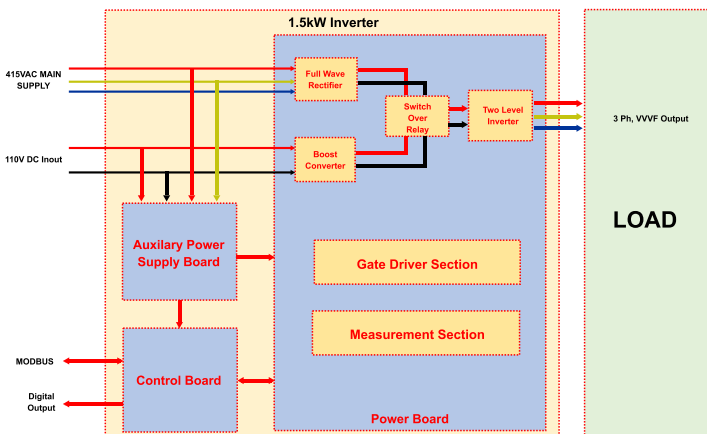
Built with high-quality components, our Inverter offers robust performance and long-term durability, ensuring a reliable power conversion solution that stands the test of time.

Safety Certified



Rest assured knowing that our Inverter meets rigorous safety standards, providing peace of mind and confidence in its operation

Block Diagram



Product Highlights



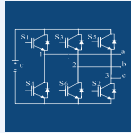
Seamless Power Conversion

Effortlessly convert 110V DC input or 3Ph, 415V, 50HZ AC input to high-quality 3Ph, 50Hz, 415VAC variable output, ensuring consistent and reliable output



Reliable Performance

Withstands up to 110% of rated current for 1 minute, ensuring stability under heavy loads



Advanced Two-Level Inverter

Achieve variable 3ph, 415VAC output at 50Hz using state-of-the-art two-level Inverter for smooth power flow



Convenient Control Options

MODBUS interface for easy three phase output voltage and frequency adjustment



Comprehensive Protection

Under voltage, over voltage, over load, short circuit, Thermal and reverse polarity protection ensure equipment safety



Automatic Power Source Switching

Allows for switching between mains power and Inverter supply based on the availability of mains electricity



Streamlined Connectivity

MODBUS interface enables seamless Integration with other devices.



Variable Output Voltage & Frequency

Variable Voltage range of 50VAC to 435VAC and Frequency range of 5Hz - 50Hz for customized operation



Cutting-Edge Boost Technology

Optimize the conversion process with efficient fixed step-up voltage from a variable range of DC input of 77VDC to 143VDC, minimizing losses and maximizing energy efficiency

Product Specifications

| Parameter | Description | Range |
|------------------------------------|---|------------------------------|
| Rated Input Voltage DC | DC Input | 110 VDC \pm 30% |
| Rated Input Voltage AC | AC Input | 3Ph, 415 VAC, 50Hz \pm 10% |
| Operational Input Voltage Range DC | DC Input | 77 VDC - 145 VDC |
| Operational Input Voltage Range AC | AC Input | 373 VAC - 450 VAC |
| Rated Output Voltage | AC Output | 3Ph, 415VAC, 50Hz |
| Output Voltage Control Range | 3Ph, Variable AC Output | 50VAC - 435VAC |
| Output Frequency Control Range | 3Ph, Variable AC Output | 5Hz - 50Hz |
| Rated Output Power | 3Ph, AC Output | 1.5 kW |
| Rated output Current | 3Ph, AC Output | 2.6 A |
| Communication port | Modbus Rs485 | |
| Discrete Output | 1 | Potential free contact |
| Protections | UV, OV, Overload, Short circuit, Thermal & Reverse Polarity | |
| Overload | 110% of rated current | 1 min |
| Cooling | Forced Air Cooling | 24 CFM |
| Product Size | L x W x H | 360mm x 250mm x 100mm |
| IP Rating | Ip67 | |