

INEX System 48V Modular Inverter System

INVERTER MODULE

The INEX inverter module provides pure sine wave AC power output for critical telecommunications equipment. Adopting N+1 redundancy design, the INEX inverter can operate up to 12 units in parallel. The INEX inverter module is specially designed with a compact size, maximizing power density that can reach up to 8.36W/inch³ for INEX1500. A 1U height design allows the module to be installed onto a standard ETSI 300mm rack. The INEX module is a revolutionary telecom power solution in terms of maximum flexibility and reliability.

- Pure sine wave
- Hot-swap replacement in shelf
- High efficiency >88%
- DSP design for higher system reliability
- Low audible noise <55dBA
- Smart fan speed control
- N+1 redundancy system, load sharing difference <5%
- -48Vdc Telecom system application
- Wide operation temperature range, -20 to 70°C



STS MODULE

The INEX STS (Static Transfer Switch) module increases system reliability by enabling automatic power transfer between the inverter output and the AC mains. By setting up the priority of operation mode, users can change the system status of "on line mode" or "off line mode". The on line mode will keep the input power provided by the inverter line and when the inverter fails, the line will switch to AC utility line. In off line mode, the system power is always connected to the AC utility line and will switch to inverter power line when AC utility fails. The transfer time is less than a quarter cycle which prevents power interruption. The reliable performance of INEX STS module will provide the maximum protection to the connected telecommunication equipment against possible damage caused by the system power failure.

- Universal input range
- Back-feed protection
- Redundant fan design
- Operation Priority Setup of transfer by setting in Control Module
- Fast transfer time, typically less than 1/4 cycle
- Wide operation temperature range, -20 to 70°C
- Lower audible noise <55dBA
- No-cross connect
- Optional maintenance bypass switch function



STS-50A



STS-100A

CONTROLLER MODULE

The INEX controller module allows users to monitor the system status in real time. Its superior design enables users to manage the inverter and STS module status including voltage, current, frequency, capacity and temperature. With a user-friendly interface design, users can easily manage the inverter and STS module settings including voltage, frequency, redundancy (for inverter module), and priority (STS module). The controller module can also record the alarm history which can help to understand the operating status while maintaining the system or making further adjustments to improve system performance.

- CAN Bus protocol for module communication
- Relay contact output for customized alarms
- Hot swappable design
- Embedded real time clock
- Comprehensive LCD & LED for status display
- Audible alarm function



INEX MBSDU

The INEX MBSDU maintenance bypass switch plus AC distribution unit allows user to perform maintenance service to systems without shutdown. The integrated AC distribution manages output power connections with NEMA or IEC outlets and bulk output terminals with breaker protection.

MBSDU-50 NEMA panel

- MBS switch 50A capacity
- 4 x 15A branch breakers with 5-15R NEMA outlets
- 2 x 20A branch breakers with 5-20R T-Blade NEMA outlets
- AC bulk input and output termination
- 2RU height, 19" panel 120Vac

MBSDU-100 panel

- MBS switch 100A capacity
- AC bulk input and output termination
- 2RU height, 19" panel 120Vac

MBSDU-50 IEC panel

- MBS switch 50A capacity
- 4 x 20A branch breakers with 2 x C13 IEC sockets per breaker
- AC bulk input and output termination
- 2RU height, 19" panel 230Vac



NEMA panel being shown

COMMUNICATION INTERFACE

The communication interface includes several options for diverse applications and facilitates the remote managing of the system. The standard ports include relay contacts, RS-232, RS-485 and USB. Relay contacts provide five programmable settings to display customized information. RS-232 & USB ports provide the serial connection to the PC for software monitoring. RS-485 provides a long distance connection for direct monitoring. The communication interface provides powerful monitoring and management solutions to the system manager.

- Relay contacts
- RS-232
- RS-485
- USB



WINPOWER MONITORING SOFTWARE

WinPower is a monitoring software which supports either a stand alone computer or network connected computers.

- Real time monitoring of each module in the inverter system
- Panoramic views of all the related information; utility power, system status and STS status
- Auto search function with any inverter power modules in LAN.
- Password security protection
- Comprehensive installation (and uninstall) process

