

ISI - NFT & 3NFT

STAND-BY SINGLE & THREE PHASE AC SINE WAVE UNINTERRUPTIBLE CENTRAL SYSTEM WITH NEMA 3R ENCLOSURE

The Inverter Systems, Inc. NFT & 3NFT is an emergency lighting inverter available in single or three phase for installation outdoors. The inverter transfers to emergency mode within 2ms when utility power is lost which allows the system to support all types of lighting loads including H.I.D. The outdoor rated cabinet allows installation in remote locations and where space is not available indoors.

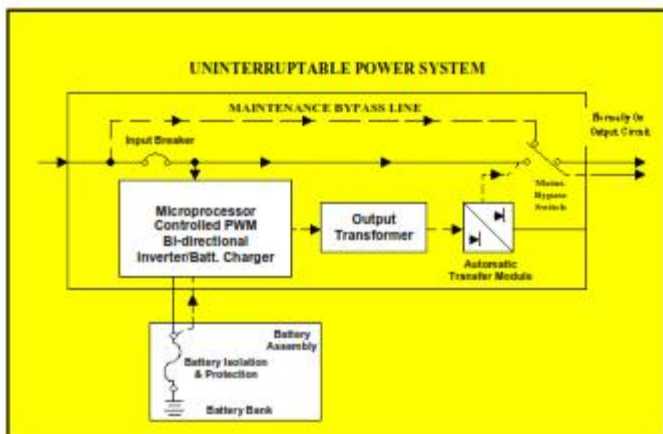
The NFT & 3NFT demonstrate exceptional 98% operating efficiency by means of the fast "no-break" transfer circuit, providing considerable running cost savings over typical double conversion UPS systems. Available in a wide range of capacities and voltages, the NFT & 3NFT are designed to provide up to 90 minutes of standby emergency power in accordance with the requirements of U.L. 924.

OPERATION

The inverter is normally off and the commercial AC power continuously supplies the critical load. The input converter (bi-directional transformer) derives power from the commercial AC power source and supplies to the inverter while simultaneously providing floating charge to the batteries.

Upon failure of the commercial AC power the inverter instantaneously, with a maximum of a 2-millisecond break, switches its power supply from the input converter to the battery system. There shall be no loss of power to the critical load upon failure or restoration of the utility source.

An automatic low voltage cutoff circuit disengages the inverter system at the useful end of the battery capacity preventing deep discharge battery damage. Upon restoration of the utility supply the system automatically returns to the normal "standby" mode and restores the battery to full charge.



All specifications subject to change without notice.



STANDARD FEATURES:

- **COMPATIBLE WITH L.E.D. APPLICATIONS**
- Single Phase units available in standard capacities from 3000 VA to 8000 VA. Three Phase units from 4000 VA to 8000 VA
- Modular design provides electronic assemblies mounted on removable modules for ease of maintenance
- 98% high-efficiency stand-by operation
- Industry proven continuously on PWM inverter utilizes switching transistor failure whilst still maintaining full rated load output
- Short-circuit protected with critical point fuses and breakers
- Digital metering indicates: input voltage, output voltage, output current, battery voltage, battery current, VA output, inverter watts, ambient temperature, system day, inverter minutes
- System test switch
- Available with many alarm function, monitoring and diagnostic options -refer Option Selection chart
- Maintenance free sealed lead calcium batteries
- Heavy gauge steel cabinets with filtered air louvers, key locks and removable hinged front opening doors for ease of access and maintenance
- Engineered for standard 90 minute emergency operation
- Suitable for extreme temperature from - 4° to 104° F with optional heater (continuous operation at high or low ambient temperatures may affect battery capacity and life; see battery warranty sheet for details)
- Input lighting protection meets IEEE/ANSI C62.45-45 (CAT A & B)
- Input current harmonic distortion 10% or less at full load
- Input circuit breaker included for complete protection
- Load power factor .5 lag to .5 leading
- Output distortion 3% THD linear load
- U.L. 924 Listed