

DESCRIPTION

Unipower Telecom's INV2500-HS Series are 2500 volt-ampere, sine wave, hot-swap inverter modules which are available with a compatible, two-unit 19-inch shelf. The shelf is 2RU high (3.5 inches). The units operate off a 48VDC (42-56V range) input and produce either 115VAC output at 22A RMS or 230VAC at 11A RMS. Two units in the shelf produce 115VAC at 44A or 230VAC at 22A. The low distortion 50 or 60Hz sine wave is produced using MOSFET and IGBT power semiconductors with advanced, high-frequency, pulse-width modulation techniques which achieve 90% efficiency and 7.2VA per cubic inch power density.

The units can be paralleled for higher output power or for N+1 redundant applications. When operated in the shelf they are automatically paralleled. They are fully isolated from the telecom battery.

An input circuit breaker turns the inverter on and protects the battery from input faults. An output breaker connects the inverter to the load bus (after synchronization if the bus is live) and quickly disconnects the inverter in the event of an internal fault. The inverter has high surge capability (up to 300%) for starting loads such as motors, but the output breaker quickly trips if power attempts to flow back into a faulted inverter.

Front panel LEDs indicate inverter status, and Form C relay alarm contacts are available on the back. The units are self-cooled by internal fans.

TWO-YEAR WARRANTY

SAFETY STANDARDS

UL60950-1
CSA22.2, No. 60950-1
EN60950-1

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TELECOM INVERTER MODULES

| MODEL | INPUT | OUTPUT | FREQUENCY |
|------------------|----------|--------------|-----------|
| INV2500-HS-60-E | 42-56VDC | 115VAC @ 22A | 60Hz |
| INV2500-HS-50-E | 42-56VDC | 115VAC @ 22A | 50Hz |
| INV2500H-HS-60-E | 42-56VDC | 230VAC @ 11A | 60Hz |
| INV2500H-HS-50-E | 42-56VDC | 230VAC @ 11A | 50Hz |
| INV2500-HS-60* | 42-56VDC | 115VAC @ 22A | 60Hz |
| INV2500-HS-50* | 42-56VDC | 115VAC @ 22A | 50Hz |

NOTE: *These two models have the AC neutral output grounded to chassis. The other four models (-E) have floating AC neutral outputs.

INVERTER SHELVES

| MODEL | OUTPUT VOLTAGE | SIZE | HEIGHT | MODULE CAPACITY | MAXIMUM OUTPUT |
|-------------|----------------|---------|--------|-----------------|----------------|
| INVR2U-HS | 115VAC | 19-Inch | 2RU | 2 | 5kVA |
| INVR2U-HS-H | 230VAC | 19-Inch | 2RU | 2 | 5kVA |

FEATURES

- ◆ Hot-Swap Replacement in Shelf
- ◆ Two Rack Spaces High: 3.5"
- ◆ 19- or 23-Inch Rack Mounting
- ◆ 2500 VA Module Output
- ◆ 5000 VA for Two Units in 19" Shelf
- ◆ 7.2 VA per Cubic Inch Density
- ◆ 115 VAC at 22 A or 230VAC at 11A
- ◆ Low Distortion 50 or 60Hz Sine Wave
- ◆ 42 to 56 VDC Input
- ◆ Fully Isolated from Battery Input
- ◆ 90% Typical Efficiency
- ◆ Up to 300% Surge Capability
- ◆ Circuit Breaker Input & Output Protection
- ◆ Powers Reactive Loads
- ◆ Form C Relay Alarm Contacts

