



SINE-WAVE INVERTERS



- ◆ 115 or 230VAC
- ◆ 50 or 60Hz
- ◆ Hot-Swap Modules
- ◆ 42-56VDC Input
- ◆ Low Distortion Sine Wave
- ◆ Up to 30kVA Output
- ◆ -20°C to +70°C Operating Temp.

INVERTER MODULE DESCRIPTION

Unipower Telecom's INV2500-HS is a hot-swap inverter module that produces a 2.5kVA sine-wave output. This output is an accurate, stable waveform with less than 2% total harmonic distortion. All functions of the module are microprocessor controlled.

Four distinct models with the following outputs make up the product line: 115VAC at 60Hz, 115VAC at 50Hz, 230VAC at 60Hz and 230VAC at 50Hz. The modules achieve 90% efficiency and 7.2VA per cubic inch power density.

The units incorporate input and output circuit breakers and LED status indicators for input OK, output OK and sync OK. There are also Form C Relay contacts for a failure alarm. DC input voltage range is 42 to 56 volts, and the modules are fully isolated from the battery. Other features include up to 300% surge capability, the ability to power reactive loads, output overload protection and overtemperature protection.

Compatible shelves hold two or five paralleled modules; the shelves can also be paralleled, resulting in a totally scalable inverter system.

TWO-YEAR WARRANTY

SPECIFICATIONS, INV2500-HS MODULE

Typical at 48V Input, Full Load and 25°C Unless Otherwise Noted.

INPUT

Voltage Range.....	42-56VDC
Input Current, Full Load, 48DC.....	<60A DC
Input Current, No Load, 48VDC.....	<1A DC
Input Protection.....	100A Circuit Breaker
EMI Filter, Conducted.....	FCC2078 pt. 15J Curve A
	EN55022 Curve A
Voice Band Noise, 240 A-H Battery.....	<32dBmC

OUTPUT

Voltage, Full Load.....	115 or 230VAC
Voltage, No Load.....	120 or 240VAC
Current, Max, 115VAC.....	22A RMS
230VAC.....	11A RMS
Frequency.....	50 or 60Hz, $\pm 0.1\%$
Total Harmonic Distortion.....	<2%
Load Crest Factor.....	2.8 to 1
Output Protection.....	25A Circuit Breaker
Surge Capability.....	Up to 300%
Reactive Loads.....	+90° to -90° Phase
Efficiency.....	90%



INV2500-HS / INV2500H-HS
HOT-SWAP INVERTER MODULES

FEATURES

- Low Distortion Sine Wave
- 115 or 230VAC Output
- 50 or 60Hz
- 2.5kVA Output
- Hot-Swap Operation
- 42 to 56VDC Input Range
- 7.2VA/Cubic Inch
- 90% Efficiency
- Circuit Breaker Input & Output Protection
- Parallel Capability
- Up to 300% Surge Capability
- -20°C to +70°C Operating Temp.



SAFETY STANDARDS

UL60950, CSA22.2 No.60950, EN60950

STATUS INDICATORS

Input OK.....	Green LED
Sync OK.....	Green LED
Output OK.....	Green LED
Form C Relay Alarm Contacts.....	Inverter Fail Alarm

ENVIRONMENTAL

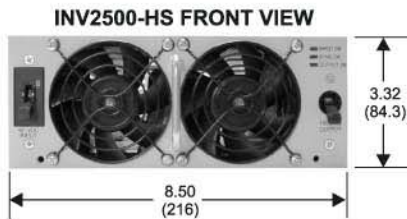
Operating Temp. Range.....	-20°C to 70°C
Output Current Derating.....	2.5%/°C, 50°C to 70°C
Storage Temp. Range.....	-40°C to +85°C
Humidity.....	0% to 95%, Non-Condensing
Cooling.....	Internal Fans

PHYSICAL SPECIFICATIONS

Case Material.....	Aluminum
Dimensions, Inches (mm).....	3.32 H x 8.5 W x 12.25 D (84.3 x 216 x 311)
Weight.....	11.50 lbs. (5.22kg)

For complete specifications, go to www.unipowertelecom.com

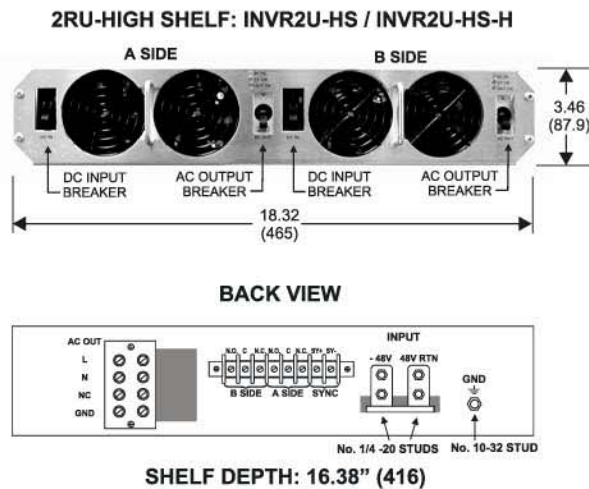
INVERTER SYSTEM ORDERING GUIDE



INVERTER HOT-SWAP MODULES

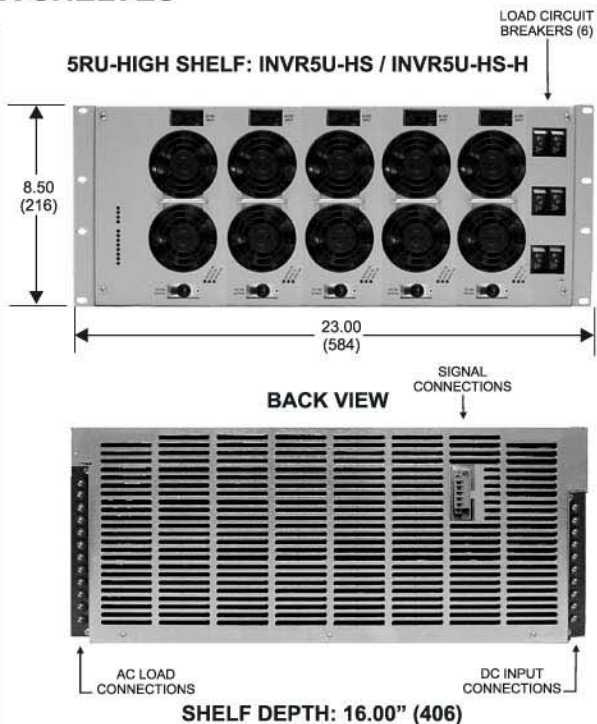
MODEL	INPUT	OUTPUT	FREQ.
INV2500-HS-60	42-56VDC	115VAC@22A	60Hz
INV2500-HS-50	42-56VDC	115VAC@22A	50Hz
INV2500H-HS-60	42-56VDC	230VAC@11A	60Hz
INV2500H-HS-50	42-56VDC	230VAC@11A	50Hz

INVERTER SHELVES



2RU INVERTER SHELVES

MODEL	OUTPUT VAC	SIZE	MODULE CAPACITY	MAX. OUTPUT	AC DISTR. BREAKERS
INVR2U-HS	115	19 In.	2	5kVA	0
INVR2U-HS-H	230	19 In.	2	5kVA	0



5RU INVERTER SHELVES

MODEL	OUTPUT VAC	SIZE	MODULE CAPACITY	MAX. OUTPUT	AC DISTR. BREAKERS
INVR5U-HS-A	115	23 In.	5	12.5kVA	0
INVR5U-HS-H-A	230	23 In.	5	12.5kVA	0
INVR5U-HS-B	115	23 In.	5	12.5kVA	6
INVR5U-HS-H-B	230	23 In.	5	12.5kVA	6

TYPICAL CONFIGURATIONS



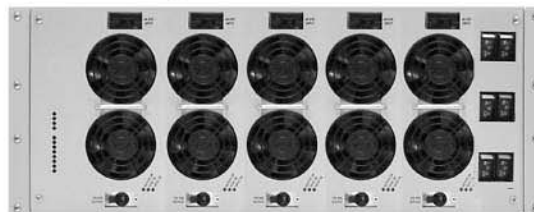
INV2500-HS-INVERTER MODULE

115 or 230VAC@2500VA



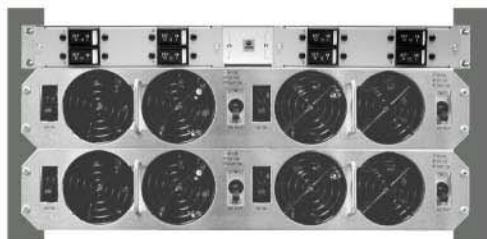
INVR2U-HS

TWO-MODULE SHELF
2U-HIGH, 19-INCH, 5kVA

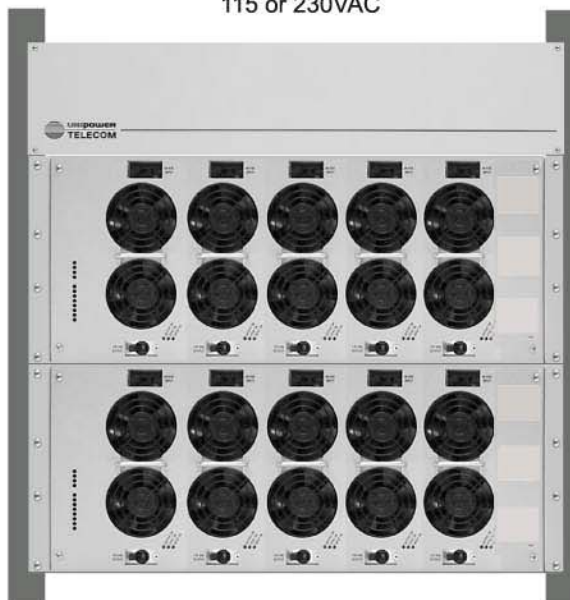


INVR5U-HS

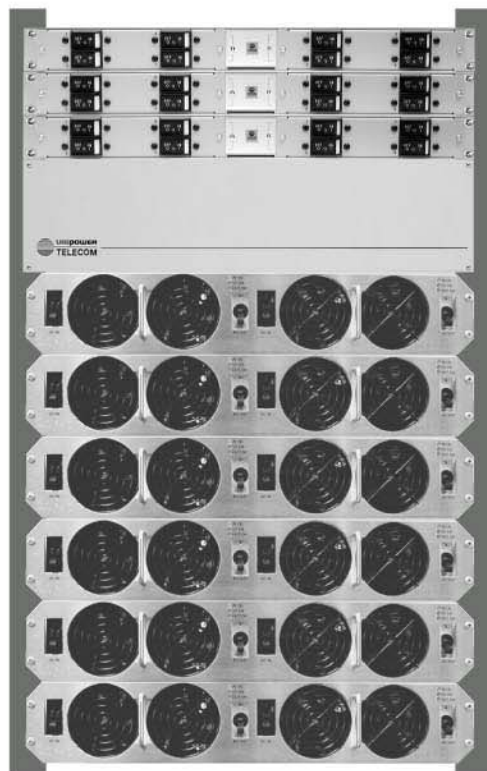
FIVE-MODULE SHELF
5U-HIGH, 23-INCH, 12.5kVA
6 AC DISTRIBUTION CIRCUITS
115 or 230VAC



**TWO INVR2U-HS SHELVES PLUS
DPAC1U AC DISTRIBUTION PANEL**
4 MODULES, 10kVA, 115VAC



**TWO INVR5U-HS SHELVES PLUS
DPAC3U AC PARALLELING PANEL**
10 MODULES, 25kVA
12 AC DISTRIBUTION CIRCUITS
115 or 230VAC



**SIX INVR2U-HS SHELVES PLUS
DPAC3U AC PARALLELING PANEL &
3 DPAC1U AC DISTRIBUTION PANELS**
12 MODULES, 30kVA, 115VAC

For complete specifications, go to www.unipowertelecom.com

MODULAR, SCALABLE INVERTER SYSTEMS

HOT-SWAP, 2500VA INVERTER MODULE



HOT-SWAP SYSTEM SHELVES

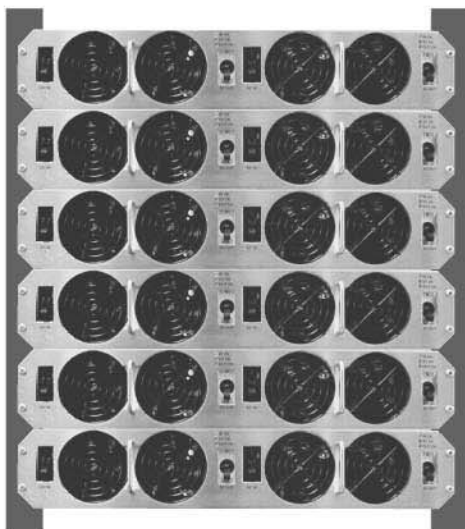


2-MODULE INVERTER SYSTEM
2U, 19-INCH SHELF
UP TO 5kVA, or 2.5kVA 1+1

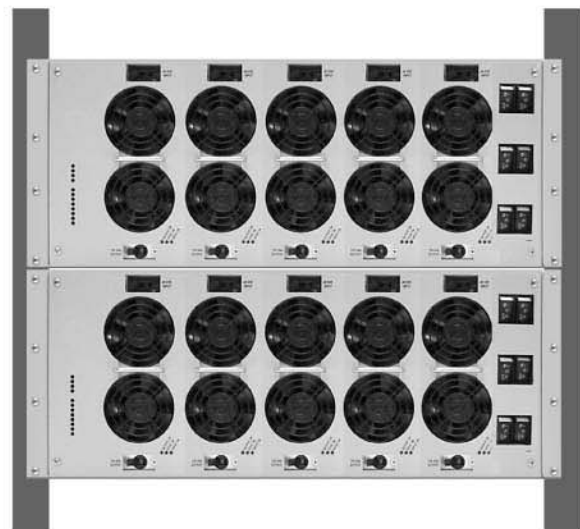


5-MODULE INVERTER SYSTEM
5U, 23-INCH SHELF
UP TO 12.5kVA, or 10kVA N+1
WITH 6 AC DISTRIBUTION CIRCUITS

SCALABLE SYSTEMS



UP TO 12 INVERTER MODULES
30kVA NON-REDUNDANT
27.5kVA 11+1 REDUNDANT



UP TO 10 INVERTER MODULES
25kVA NON-REDUNDANT
22.5kVA 9+1 REDUNDANT

AC DISTRIBUTION PANELS



DPAC1U AC DISTRIBUTION PANEL

- Single or Dual A/B Sections
- 115VAC Distribution
- Up to 8 AC Circuits with Breakers
- 50A Per Section (100A Total)
- 5A-30A AC Breaker Capacities
- Terminal Block or NEMA 5-15R Output
- Common or Isolated A & B Sections
- 19- or 23- Inch Mounting



DPAC3U AC PARALLELING PANEL

- 3RU High
- Parallels Shelf AC Outputs
- Up to 6 INVR2U Shelf Outputs
- 2 INVR5U Shelf Outputs
- 115 or 230VAC
- 19- or 23- Inch Mounting



SCALABILITY TABLE

NO. OF INV. MODULES	kVA RATING	OUTPUT @115VAC	OUTPUT @230VAC	N+1 kVA RATING	N+1 OUT @115VAC	N+1 OUT @230VAC
1	2.5	22A	11A	—	—	—
2	5.0	44A	22A	2.5	22A	11A
3	7.5	66A	33A	5.0	44A	22A
4	10.0	88A	44A	7.5	66A	33A
5	12.5	110A	55A	10.0	88A	44A
6	15.0	132A	66A	12.5	110A	55A
7	17.5	154A	77A	15.0	132A	66A
8	20.0	176A	88A	17.5	154A	77A
9	22.5	198A	99A	20.0	176A	88A
10	25.0	220A	110A	22.5	198A	99A
11	27.5	242A	121A	25.0	220A	110A
12	30.0	264A	132A	27.5	242A	121A

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For complete specifications, go to www.unipowertelecom.com