

DC/AC INVERTER

1200/2500 Watts



Ji Series Inverter paralleled to DC Power Supply (SMR) and backup batteries can provide a clean and uninterrupted AC Power Source for telecom equipment, critical information processing systems and industry process control systems. It has been recognized as the total solution for ac power problems encountered in the above mentioned applications.

Ji Series Inverter apply advance theory of power conversion and are implemented with unique high frequency PWM topology of full bridge IGBT converter . The **Ji** Series inverter can either work in on-line or off-line operation chosen by users. The mechanical design meets 19"and 23" rack-mounted industry standard. For flexible installation and convenient maintenance, shelf and body combined type enclosure is also available.

Features:

- Pure Sinusoidal waveform
- High efficiency : > 90%
- On-line and Off-line selectable
- 1+1 redundancy
- 19"and 23" rack-mountable
- 2U height design
- High power, Low profile
- DC and AC circuit breakers
- Voltage and current meter
- Real contact signals for system alarm
- Over load and over temp. protections
- Low audible noise: < 55 dBA
- Meet EN50081-1, EN50081-2 and EN50082-1
- Meet ANSI / IEEE62.41

Applications:

- Telecom Systems
- Information Systems
- Industry Control Systems
- Security control Systems
- Solar Power Systems
- Other ac power critical Systems

Ratings & Models:

| Capacity(Watts) | DC input | | AC output | | Model |
|-----------------|------------|------------|------------|------------|----------------|
| | Voltage(V) | Current(A) | Voltage(V) | Current(A) | |
| 1200 | 40~58 | 35 (@40V) | 110 | 11 | JI1500-48-110 |
| | | | 220 | 5.5 | JI1500-48-220 |
| | 99~150 | 13 (@99V) | 110 | 11 | JI1500-120-110 |
| | | | 220 | 5.5 | JI1500-120-220 |
| 2500 | 40~58 | 72 (@40V) | 110 | 23 | JI3000-48-110 |
| | | | 220 | 11.5 | JI3000-48-220 |
| | 99~150 | 28 (@99V) | 110 | 23 | JI3000-120-110 |
| | | | 220 | 11.5 | JI3000-120-220 |

(“-H” after model number indicates Shelf-body type enclosure.)

Specifications:

Output waveform : Sinusoidal

THD : < 3% (0~100% linear load)

Frequency : 50/60 ± 0.5% Hz

Regulation : < 1% (all conditions)

Dynamic : < ± 10% @ 0~100% instant

load change < ± 1% within Meter

100ms.

Noise : 24 dBnc (with battery)

Efficiency : 87~92%

Over load : 110%

Load PF : -0.7~0.7

Acoustic Noise : < 55dBA (at 1 meter)

Automatic Transfer Switch

Transfer time : 4ms typical

Operation modes

On-line : by-passes to AC line if inverter failed.

Off-line : transfers to inverter if AC failed.

Panel Display:

LED

On-line operation (Green)

Off-line operation (Green)

Inverter On (Green)

System alarm (Red)

Reading AC output voltage or current, selected by “V” / ”A” switch.

Protections:

DC input circuit breaker

AC output circuit breaker

DC input high voltage

DC input low voltage

AC output high voltage

Over Load

Short circuit

Over temperature

Others:

Operation temperature : -5 ~ 50

Relative humidity : 90% RH (No condense)

Weight : < 13 Kg