



GREAT FORWARD
Industrial Co., Ltd.

DC/AC INVERTER

1KVA

Module type: IN-11010-S048-E
IN-22010-S048-E



The inverter is designed for superior performance in Telecom, Industrial and EDP applications.

Optimum reliability

Whether you are operating telephone or internet / data system, GF understands the concept of critical power using in Telecommunication's field. That's why GF's inverters are widely used by more and more telecom providers in critical DC / AC applications.

Universal flexibility

Designed for various field applications with selectable voltage and frequency, The inverter meets international standard.

High power module

The DC48V / 1KVA is designed to supply maximum power in a small rack space for high capacity power plant applications.

Friendly and easy operation

Great Forward designs INVERTER power supply system for telecommunication with state-of-art and user-friendly features.

- **Online design**
- **Power topology: 20kHz Sinewave PWM**
- **DC input / AC output breakers**
- **High efficiency > 85%**
- **Power factor ≥ 0.8**
- **ATS function (Automatic Transfer Switch)**
- **Built-in voltage/current meter**
- **DC polarity reverse protection**
- **Overload and over temperature protection**
- **Suitable for 19"/ 23" standard rack**

Unrivalled durability

Whether your equipment's located in a central office, remote site, GF inverter are built to perform in the most hostile environmental conditions.

High quality

In addition to being ISO 9001 registered, GF employs a rigorous quality control program to ensure all products meet the highest quality standards. The product is designed with premium grade components and with guaranty.

Specifications: IN-11010-S048-E & IN-22010-S048-E

Electrical

Input voltage: 42 ~58VDC
 Input current: 30A (@DC 42V)
 Power: 1KVA
 Efficiency: $\geq 85\%$ Typical, nominal input, full load
 Output voltage: 100 / 110 $\pm 5\%$, 200 / 220V $\pm 5\%$ (selectable)
 Output current: 9.1A(AC110V) / 4.5A(AC220V)
 Output frequency: 50/60 Hz ± 0.5 Hz (selectable)
 Waveform : Sinewave
 Power factor: ≥ 0.8 True
 Voltage - Regulation : $\leq 2\%$, deviation for 0 to 100% load range;
 deviation for 42 ~58V voltage range
 Transient Response : $\leq \pm 12\%$ and will return to $\pm 2\%$ under 100 ms
 (load from 20 to 70%)
 Voice band: ≤ 32 dBrc (with battery)
 Distortion rate : $\leq 5\%$
 Audible noise: < 60dB(A) at 1M

Mechanical

Cooling: Force fan cooling
 Dimensions: 178H x 433W x 400D mm
 (7" H x 19" W x 15.7" D)
 Mounting: Fits the 19"/23" racks, center or flush mount
 Weight: 27 kg

Environmental

Temperature: 0° to 40°C (32° to 104°F)
 Humidity: 10 to 95% R.H. non-condensing
 Elevation: Up to 3,000m (9,843 ft)

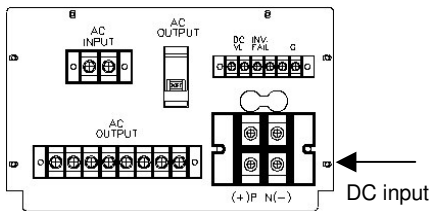
Features

LED indicators -
 Green: DC input / AC output active
 Yellow: DC input high voltage (>57Vdc)
 Yellow: DC input low voltage (<41Vdc)
 Red: Inverter failure; Fan failure
 Display: Digital AC voltage / Ampere
 Protection: DC input breaker
 AC output breaker
 DC polarity protection
 High voltage protection (>59Vdc)
 Low voltage protection(<40Vdc)
 High/low voltage protection(> $\pm 10\%$,AC)
 Overload and short circuit
 Over temperature protection(>85°C)
 Keyboard: V/A select
 Lamp test
 Mute
 Adjustment: Voltage output
 Remote alarm: DC LV
 INV Fail

Standards

Emission: FCC Part 15, Subpart J, Class A
 Vibration: 1.5mm Displacement 2~9 Hz
 0.5 g Acceleration 9~200Hz
 Continuous, any direction

The connector assignment:



Outline drawing:

