# OFF-GRID INVERTERS

**Stand-alone Power Supply for Maximum Flexibility**

NeatPower Off-Grid inverters provide both residential and commercial application the self-efficient power supply when being independent from conventional utility grid or during grid outages. From home appliance, office device, to portable equipment like vehicle and yacht, it guarantees clean, cost-effective and consistent true sinewave output to applications in any location where connection to public power distribution is not desired or cost-sensitive.

In conjunction with the solar charger and battery pack, the Off-Grid inverters forms an independent and regenerative power grid with high efficiency, flexibility and durability hence ideal for indoor and outdoor application or as utility backup systems. With the feature of LED indicator, it offers an intuitive way for users to monitor and control the machine timely for optimizing the operation in case of any unsettled condition to happen.

**FEATURE**

- High efficiency up to 93%
- High surge power up to two times of nominal capacity
- True sine wave output (THD<3%)
- Robust enclosure for both interior and exterior installation
- Operating condition and battery status LED indicator
- Temperature controlled fan to enable forced ventilation
- AC transfer switch (either utility or generator)
- 3-year global warranty

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NTI-3000

NTI-300IP

NTI-400

NTI-1000

NTI-1500

| Model | NTI-300IP | | | NTI-400 | | | NTI-1000 | | | NTI-1500 | | | NTI-3000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Output** | | | | | | | | | | | | | | | |
| Rated Power | 300W | | | 400W | | | 1000W | | | 1500W | | | 3000W | | |
| Max. Power | 345W 200sec. / 450W10 sec. | | | 460W 200 sec. / 600W 10 sec. | | | 1150W 200 sec. / 1500W 10 sec. | | | 1725W 200 sec. / 2250W 10 sec. | | | 3450W 200 sec. / 4500W 10 sec. | | |
| Surge Power | 800W > 0.5 s | | | | | | 2000W > 0.5 s | | | 3000W > 0.5 s | | | 6000W > 0.5 s | | |
| AC Voltage | Factory setting set at 120VAC, 100 / 110 / 115 / 120VAC selectable | | | | | | | | | | | | | | |
| Frequency | Factory setting set at 60±0.0001Hz, 50/60Hz selectable | | | | | | | | | | | | | | |
| Waveform | True sine wave (THD<3%) at Nominal input voltage | | | | | | | | | | | | | | |
| AC Regulation | ± 3% of Nominal Output Voltage | | | | | | | | | | | | | | |
| Front Panel Indicator | Battery voltage level, output load level, saving mode, fault and operation status | | | | | | | | | | | | | | |
| Output Protection | AC Short, Overload, Over Temperature | | | | | | | | | | | | | | |
| **AC Input** | | | | | | | | | | | | | | | |
| Input Voltage | -12.5% to +20% of Nominal Voltage | | | | | | | | | | | | | | |
| Input Frequency | 40~70Hz | | | | | | | | | | | | | | |
| Max. Input Current | 3A | | | 4A | | | 10A | | | 15A | | | 30A | | |
| Transfer Time | 7ms inverter←→by pass | | | | | | 10ms inverter←→by pass | | | | | | | | |
| **DC Input** | | | | | | | | | | | | | | | |
| Battery Voltage | 12Vdc | 24Vdc | 48Vdc | 12Vdc | 24Vdc | 48Vdc | 12Vdc | 24Vdc | 48Vdc | 12Vdc | 24Vdc | 48Vdc | 12Vdc | 24Vdc | 48Vdc |
| Voltage Range | -12.5% to +25% of Nominal Voltage | | | | | | | | | | | | | | |
| DC Current | 32A | 16A | 8A | 43A | 21A | 10.5A | 106A | 53A | 27A | 166A | 81A | 40A | 320A | 155A | 77A |
| No Load Dissipation | ≤ 9W standby mode | | | | | | | | | | | | ≤ 10W standby mode | | |
| Off Mode Current | ≤ 1mA at Power Switch Off | | | | | | | | | | | | | | |
| Efficiency | 90% | 90% | 91% | 90% | 90% | 91% | 90% | 91% | 92% | 90% | 91% | 92% | 90% | 92% | 93% |
| Battery Type/Capacity | Open & sealed lead acid battery | | | | | | | | | | | | | | |
| Arc Fault Protection | Yes | | | | | | | | | | | | | | |
| **Others** | | | | | | | | | | | | | | | |
| Interface | NC | | | RJ11-RS232 for Web-Card Monitoring (Option) | | | | | | | | | | | |
| Dimension(H*W*Dmm) | 57.3*257*239 | | | | | | 60*260*340 | | | 96*310*287.4 | | | 96*310*470.4 | | |
| Weight (kg) | 2.7 | | | | | | 4.1 | | | 6.63 | | | 12.4 | | |
| Working Temperature | -20~+60°C@ 100% load<br>70°C@ 60% load | | | -40 ~ +50°C@ 100% load, 70°C@ 60% load | | | | | | | | | | | |
| Cooling | Convection | | | Temperature controlled fan | | | | | | | | | | | |
| Protection rating | IP65 | | | NC | | | | | | | | | | | |
| Safety & EMC | | | | | | | | | | | | | | | |
| LVD | EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011(For HV model) | | | | | | | | | | | | | | |
| Withstand Voltage | Bat I/P - AC I/P:3.0KVAC Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC | | | | | | | | | | | | | | |
| Isolation resistance | Bat I/P - AC O/P, Bat I/P - FG, AC O/P - FG: 100M ohms / 500VDC / 25℃ / 70% RH | | | | | | | | | | | | | | |
| EMI | EN55022,CISPR 11、22,AS/NZS CISPR 22,EN 61000-6-4,EN61000-3-2, EN61000-3-3 | | | | | | | | | | | | | | |
| EMS | IEC61000-4-2、3、4、5、6、8 EN 61000-6-2 | | | | | | | | | | | | | | |

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