



# Off-grid Solar Charge Inverter

**KNY5500**



**Advanced MPPT**  
With efficiency up to 99.9%



**Pure Sine Wave**  
Stable output with low voltage fluctuations



**Fast Switching**  
Uninterruptible power, switching within 10ms



**Certification**  
CE / CETL / SAA / FCC



**More Practical**  
With dry contact for diesel power generation



**Widely Compatible**  
Lead-acid batteries & Lithium batteries

## WHY CHOOSE US?

- ✓ Provide professional customized solutions.
- ✓ Belonging to the Fortune 500 Group.
- ✓ Localized and timely after-sales service plan.

## WHO ARE WE ?

Knyee Energy belongs to the Chilwee Group, one of the largest battery companies in China. We are a high-tech enterprise focusing on the production of energy storage batteries, mainly for research and development, production, sales of residential energy storage microgrid and commercial energy storage products, also providing total solutions.

CHILWEE Group has 32 industrial bases and more than 100 companies at home and abroad, which are located in Zhejiang, Jiangsu, Anhui, Jiangxi, Henan, Shandong, Hebei, Guangxi, Hunan, as well as Germany, France, etc.

**Group Honors** | Top 500\_2023 Global New Energy Enterprises Top 10\_New Energy Battery Industry in China  
 Top 500\_Manufacturers in China Top 500\_Private enterprises in China



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## Model

**KNY5500**

### Basic Information

|                            |                                     |
|----------------------------|-------------------------------------|
| Rated Output Power/Voltage | 5500W / 230Vac(L/N/PE Single-phase) |
| Max.Peak Power             | 11000VA                             |
| Load Capacity of Motors    | 4HP                                 |
| Rated AC Frequency         | 50Hz/60Hz                           |
| Waveform                   | Pure Sine Wave                      |
| Switch Time                | 10ms(typical)                       |

### Battery Parameters

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Battery Type                        | Li-ion / Lead-Acid / User-defined |
| Rated Battery Voltage               | 48V                               |
| Voltage Range                       | 40~60V DC                         |
| Max.MPPT Charging Current           | 100A                              |
| Max.grid/Generator Charging Current | 60A                               |
| Max.Hybrid Charging Current         | 100A                              |

### PV Input

|                             |             |
|-----------------------------|-------------|
| NO. of MPPT Trackers        | 1           |
| Max.PV Array Power          | 6000W       |
| Max.Input Current           | 22A         |
| Max.Voltage of Open Circuit | 500V DC     |
| MPPT Voltage Range          | 120-450V DC |

### Utility / Generator Input

|                         |  |
|-------------------------|--|
| Input Voltage Range     | UPS mode:170 ~ 280V AC; APL mode: 90 ~ 280V AC |
| Frequency Range         | 50/60Hz  |
| Bypass Overload Current | 40A  |

### Efficiency

|                                  |       |
|----------------------------------|-------|
| MPPT Tracking Efficiency         | 99.9% |
| Max. Battery Inverter Efficiency | >90%  |

### General Parameters

|                             |                                 |
|-----------------------------|---------------------------------|
| Dimensions (W*H*D mm)       | 322*426*124mm                   |
| Gross/Net Weight            | 12kg/10.29kg                    |
| Protection Rating           | IP20, IndoorOnly                |
| Operating Temperature Range | -10°C~55°C                      |
| Noise                       | <60dB                           |
| Cooling Method              | Internal Fan                    |
| Embedded Interfaces         | RS485 / CAN / USB / Dry contact |
| External Modules (Optional) | Wi-Fi / GPRS                    |