

# 1-18kW Pure Sine Wave Inverter Charger

This pure sine wave inverter charger converts DC power to AC, with power ranging from 1kW to 18kW. It provides reliable power for home appliances and office equipment, with battery charging capabilities.



## ADDITIONAL IMAGES



## Overview

### PRODUCT DISPLAY



The HP series inverter is designed for high-efficiency power conversion in renewable energy systems.

### High-Efficiency Inverter & Charger

The HP series is a robust low-frequency, pure sine wave inverter and charger designed for demanding renewable energy, off-grid, and backup power applications. Ranging from 1kW to 18kW, this unit provides reliable power conversion for both household and industrial loads. It features advanced battery management, including support for various battery types and intelligent charging, alongside integrated MPPT solar capabilities for comprehensive energy systems.

## Performance

Power Range	1.0kW - 18.0kW
Peak Efficiency	88 %
Line Mode Efficiency	95 %
Typical Transfer Time	10 ms

## Key Features

### APPLICATION



Versatile applications including residential, marine, RV, and office power solutions.

### Load Compatibility

Linear Loads • Non-Linear Loads • Household Appliances • Office Equipment • Marine & RV

### Advanced Features

Pure Sine Wave, MPPT Solar Controller, Battery Temperature Sensor, Automatic Generator Starting, Remote Control Support, Power Saving Mode

## Battery Management

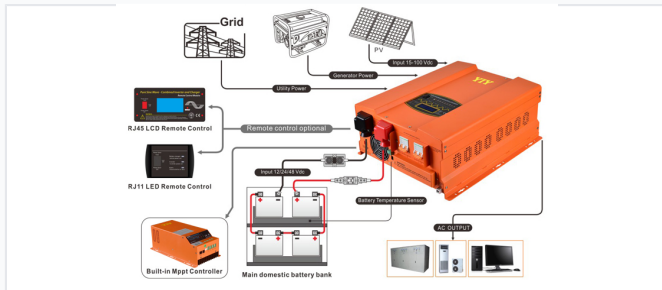
### Supported Battery Types

- Gel USA
- AGM 1
- Lithium
- Sealed Lead Acid
- Gel EURO
- Open Lead Acid
- LifePO4
- De-sulphation
- Classic LFP

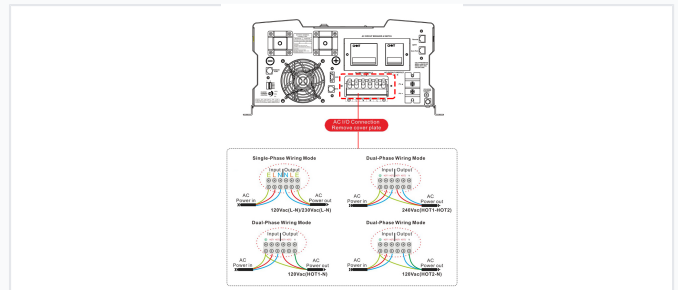
### Charging Stages

4-step Intelligent Charging

## Technical Specifications



System connectivity diagram highlighting compatibility with grid, generator, and solar PV inputs.



Detailed wiring guide for safe installation of single-phase and dual-phase configurations.

Output Frequency	50Hz / 60Hz (Adjustable)
Total Harmonic Distortion (THD)	< 3% at rated load
Mounting	Wall Mount
Ambient Temperature	0-40°C (Full load); 40-60°C (De-rating)