

# 1kW-6kW Pure Sine Wave Inverter with AC Charger

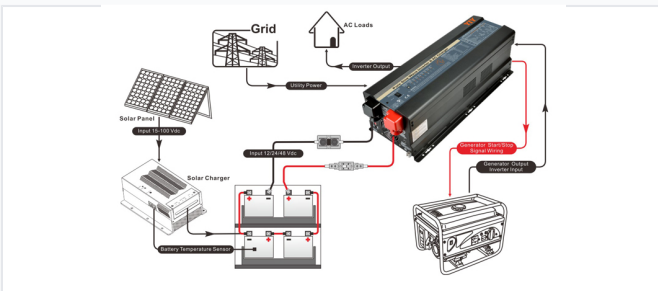
This pure sine wave inverter combines an inverter, battery charger, and AC auto-transfer switch into one complete system. It features sophisticated multi-stage charging and pure sine wave output with high surge capability to meet demanding power needs.



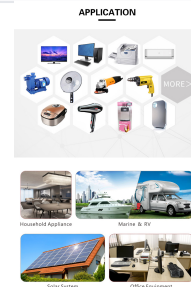
## ADDITIONAL IMAGES



## Overview



System integration diagram demonstrating versatility with solar, utility, and generator inputs.



Suitable for a wide range of applications including household appliances, marine, RV, and office equipment.

## Advanced Inverter & Charger System

This high-performance unit combines a pure sine wave inverter, a sophisticated multi-stage battery charger, and an AC auto-transfer switch into one unified system. Engineered for professional and off-grid applications, it delivers a peak conversion efficiency of 92% and features high surge capability to safely power demanding inductive loads. With intelligent power factor correction and low idle consumption, it provides a reliable, energy-efficient solution for renewable energy setups, marine, RV, and backup power environments.

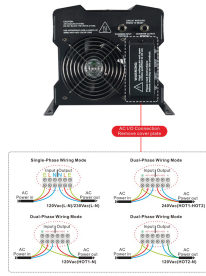
## Performance

### Key Performance Metrics

<b>6 kW</b> Max Continuous Power	<b>18 kW</b> Max Surge Rating	<b>92 %</b> Peak Efficiency	<b>10 ms</b> Transfer Time
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<b>Power Factor</b>	1
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## Technical Specifications



Flexible wiring options supporting single-phase and dual-phase configurations.

Supported DC Input Voltages	12V DC, 24V DC, 48V DC
Output Voltage Range	100-120VAC / 220-240VAC
Output Frequency	50Hz / 60Hz (Auto-detect)
Idle Consumption	< 25W (Power Saver On)

## Charging & Battery

### PRODUCT DESCRIPTION



### PURE SINE WAVE INVERTER/CHARGER



Detailed battery charging process and selector guide for optimized battery health.

### Charging Capabilities

- 4-step intelligent battery charging
- Power Factor Correction (PFC) for charger
- Up to 110A selectable charge rate
- 8 preset battery type selector
- De-sulphation mode for flat batteries

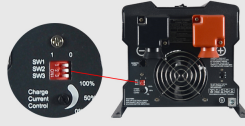
### Compatible Battery Types

Gel USA • AGM 1 • AGM 2 • Sealed Lead Acid • Gel Euro • Open Lead Acid • Calcium

## Features & Protection

### DIP SWITCHES INTRODUCTION

Switch NO	Switch Function	Position: 0	Position: 1
SW1	Low Battery Trip Volt	0V/0Vc	0V/0Vc
		For Deep Cycle Battery	For Starting Battery
SW2	AC Input Range	For Utility Mode	For Generator Mode
		220V/AC HV 120V/AC LV	180-250Vc 100-150Vc
SW3	Power Save Auto Setting	Night Charge Function	Detect Load Per 5Sec
SW4	OP Frequency Setting	60Hz	50Hz
SW5	Solar / AC Priority Setting	Utility Priority	Battery Priority



Easy-to-use DIP switch settings for customizing low battery trip, AC input range, and power frequency.

### Protections

- Overload protection (up to 300% for 20s)
- Short circuit protection
- Over-temperature protection
- High/Low battery voltage protection
- 15s delay transfer for generator protection

### Advanced Functionality

Pure Sine Wave Output, Remote Control Compatible, Generator Start/Stop Signal, Power Saving Mode, Battery Temperature Sensor