

HSI Series

Hybrid Solar Inverter



The HSI Series is a professional low-frequency toroidal transformer inverter charger for backup, off-grid, and energy storage systems. It features pure sine wave output (350W–1200W rated, 1050W–3600W surge power), ≤8ms UPS transfer, built-in AVR stabilizer, and ≥85% transfer efficiency. It includes an adjustable AC charger (up to 15A) compatible with lead-acid batteries, integrated PWM solar controller, and four working modes.

FEATURES

-  Rated power 350W-1200W.
-  Pure sine wave AC output.
-  Clear display for real-time system monitoring.
-  Multi-layer Protection for Comprehensive Safety.
-  High efficiency, low loss, long-term reliability.
-  Compatible with LiFePO4 batteries.

PRODUCT CONNECTION DIAGRAM



Model	HSI-351	HSI-501	HSI-601	HSI-801	HSI-102	HSI-122
Rated Power	350W	500W	600W	800W	1000W	1200W
Surge Power	1050W	1500W	1800W	2400W	3000W	3600W

AC Input & Output

Voltage	220VAC
Selectable Voltage Range	165-275VAC (220VAC)
Frequency Range	50Hz/60Hz automatic recognition
AC Voltage Regulation (BATT. Mode)	(DC Batt.mode)220vac±3%
Transfer Time	≤8ms
Wave Form	Pure Sine Wave
Transformer Type	Toroidal
Transfer Efficiency	≥85%

Battery

Battery Voltage	12V	12V/24V
Type	Gel/SLA/AGM/Water battery	
DC Charge Voltage	13.8VDC(12V)/27.6VDC(24V)	
Overcharge Protection	Battery voltage ≥16VDC (12V) ≥32VDC (24V), stop charging after 60s alarm	

Solar Charger & Ac Charger

Maximum PV Array Open Circuit Voltage	Max. 25V(12V) / 50V (24V)	
Maximum PV Array Power	450W(12V)/900W(24V)	
Maximum AC Charge Current	15A	
Maximum Solar Charger Current	20A PWM	30A PWM
Maximum Charging Current	35A	45A

Working mode

01 Mode	AC mains priority
02 Mode	ECO mode
03 Mode	DC battery priority
04 Mode	Unattended mode

Physical

Dimension, D*W*H(MM)	345*315*195
G.W.(KGS)	11

Environment

Humidity	0~95% (NO Condensation)
Operating Temperature	0~60°C
Storage Temperature	0~60°C