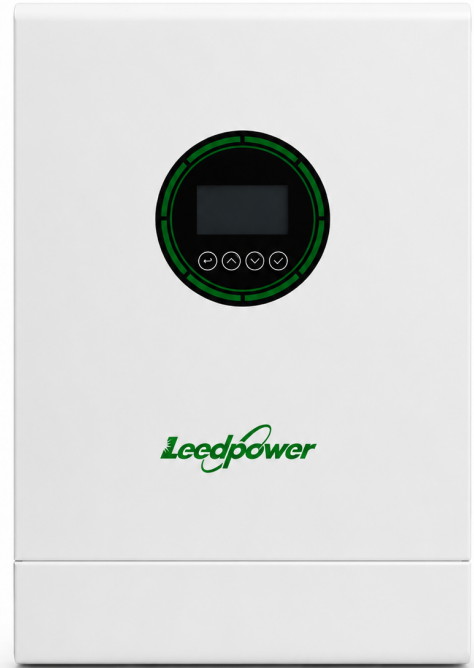


3.6KW 24V Hybrid Solar Inverter

LD-WHFCI-3600W-24V

High frequency pure sine wave inverter designed for residential solar energy storage systems. Supports MPPT solar charging, lithium / lead-acid batteries, optional WiFi monitoring and RS485 / CAN / RS232 communication.



W Rated Power
3.6kW

V Battery
24VDC

PV PV Input
5000W

A Charge Current
100A

Leading Features

- **MPPT Solar Charging**
40-450VDC operating range for flexible PV array matching
- **100A Max Charging**
PV + AC charging supports up to 100A charge current
- **Battery Compatible**
Supports lithium and lead-acid battery systems
- **Smart Communication**
RS485 / CAN / RS232 interface for system integration
- **Max. PV Input**
18A / 5000W PV input capacity for residential systems
- **Pure Sine Wave Output**
Stable AC output for home backup and energy storage
- **Fast UPS Switch Time**
10ms APP/UPS mode, 20ms GEN mode
- **Optional WiFi Monitoring**
Built-in / external WiFi options for remote monitoring

Certification & Downloads

CE EMC
EN IEC 61000 series

CE LVD
EN 62109-1/-2

IEC 61683
Efficiency verification



PRODUCT SPECIFICATIONS

LD-WHFCI-3600W-24V

AC INPUT		AC OUTPUT	
Rated Input Voltage (VAC)	208/220/230/240, L + N + PE	Rated Capacity	3.6kVA / 3.6kW
Voltage Range (VAC)	90-280 (APP/GEN mode); 170-264 (UPS mode)	Surge Power	7.2kVA
Frequency (Hz)	50/60 (Auto Adaptive)	Voltage (VAC)	208/220/230/240
CHARGER (PV / AC)		Power Factor	1
Solar Charger Type	MPPT	Frequency (Hz)	50/60
Max. PV Input Current / Input Power	18A / 5000W	Switch Time	10ms (APP/UPS mode) / 20ms (GEN mode)
MPPT Range @ Operating Voltage	40-450VDC	Wave Form	Pure Sine Wave
Max. PV Open Circuit Voltage	500VDC	Overload Capacity (Battery Mode)	1min @102%-110% load, 10s @110%-200% load
Max. PV Charge Current	100A	Max. Efficiency (Battery Mode)	92.7% @24VDC
Max. AC Charge Current	100A	Parallel Quantity	N/A
Max. Charge Current (PV + AC)	100A	INTERFACE	
BATTERY		HMI	LCD
Rated Voltage	24VDC	Interface	RS485 / CAN / RS232
Max. Charging Current	100A	Monitoring	WiFi optional / built-in / external
Max. Discharging Current	150A	GENERAL DATA	
Battery Type	Lithium / Lead-acid	Ingress Protection	IP21
ADDITIONAL INFORMATION		Operating Temperature	-10°C to 60°C
Design Concept	High Frequency Pure Sine Wave Inverter	Relative Humidity	5%-95% (Non-condensing)
Application	Solar Energy Storage System	Storage Temperature	-15°C to 60°C
Certifications	CE / RoHS (Other certifications optional)	Net / Gross Weight	6.2kg / 7.3kg
		Product Dimensions (H*W*D)	420 * 284 * 94mm (without bracket)
		Package Dimensions (H*W*D)	518 * 342 * 170mm
		Max. Operating Altitude	4000m (Derating above 2000m)

RELIABLE PERFORMANCE

CLEAN ENERGY

GLOBAL SERVICE

Specifications are subject to change without prior notice. Please refer to the latest official datasheet for final confirmation.