

## High Frequency Based Active Hybrid Solar Inverter



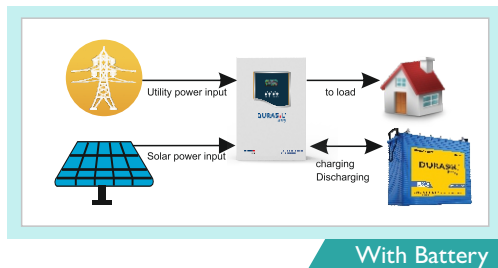
- Lithium Battery Auto-restart Function, More Convenient for Lithium Battery Charging
- Intelligent Power Supply Mode, Intelligent Distribution of Solar Panel / Mains / Battery Power shares
- Utility Charging Voltage/PV Charging Voltage Adjustable, Match Different Battery Charging Requirements
- Slim Body, Convenient Installation and Transportation
- Battery Reverse Connection Protection with Fuse Switch, Safer Installation
- PF1.0, High Efficiency, Lower Consumption, Energy Conservation / Environmental Protection / Electricity Saving / Cost Saving
- Support Working without Battery: Reduce Solar System Cost
- Parallel Function Up to Maximum 9 Units: Enlarge More Loads
- High Precision of Output Voltage,  $\pm 5\%$ , Take Care of your appliances
- Communication Option: External WiFi, Supervise at any time
- BMS function for lithium battery



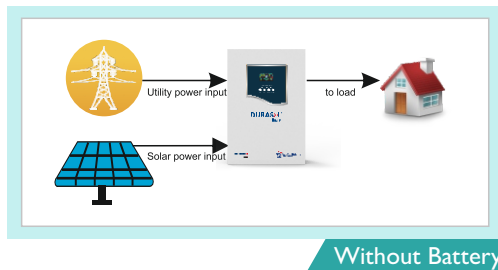
# Active Hybrid Solar Inverter

This multi-functional Active Hybrid Solar Inverter, equipped with a 60A/80A solar and battery charger, ensures uninterrupted power supply. It is suitable for both residential and commercial applications, providing reliable power to appliances through solar energy. The inverter can operate with or without a battery, making it versatile for different power generation setup.

## Working Principle



With Battery



Without Battery



## Applications



Commercial car park



Street lighting/monitoring



Family/greenhouse



Commercial/construction





# Technical Data

Model		DUS3624HF	DUS6248HFP
Input Formation		L+N+PE	
AC Input		220/230/240VAC	
Input Voltage Range		90-280VAC±3V(Normal Mode)185-264VAC±3V (UPS Mode)	
Frequency		50/60Hz(Adaptive)	
Rated Input Power		3600W	6200W
Dual Output Power		3600W/3600W	6200W/6200W
Second Load Cut Off Voltage		22V	44V
Second Load Return Voltage		26V	52V
Output Voltage(AC)		208/220/230/240VAC ± 5%	
Output Frequency		50/60Hz ± 0.1%	
Output Wave Form		Pure Sine Wave	
Transfer Time(AC to DC)		10ms for Computer Equipment, 20ms for Household Equipment	
Peak Power		7200VA	12400VA
Overload Capacity (Battery Mode)		21s@102%~110% load 10s@110%~130% load 3s@130%-150% load 400ms@>150% load	
Grid connected Operation	Output Voltage	208/220/230/240VAC±5%	
	Grid Voltage Range	195-253VA	
	Grid Frequency Range	50/60Hz±0.1%	
	Output Current	16.3A	26.9A
	Power Factor Range	>0.99	
Peak Efficiency(Battery Model)		>94%	
Rated Voltage		24VDC	48VDC
Constant Charging Voltage		28.2VDC	56.4VDC
Float Charging Voltage		27VDC	54VDC
PV Charging Method		MPPT	
Max PV Input Power		5000W	7500W
PV Input Voltage Range		60~500VDC	60~500VDC
MAX PV Input Voltage		500VDC	500VDC
MAX PV Input Current		18A	27A
MAX PV Charge Current		120A	120A
MAX AC Charge Current		100A	100A
MAX Charge Current		100A	120A
LCD Display		Can display operating mode/load/input/output	
RS232 Port / Wifi Connection		Baud Rate 2400 WiFi	
RS485 Port / BMS Communication		Lithium battery BMS communication card etc	
Parallel Interface (2×5 PIN/Pitch2.54mm)		Not Support Parallel	Support Parallel
Operating Temperature		-10°C~50°C	
Storage Temperature		-15°C~60°C	
Ork Altitude		No more than 1000m, If 1000m<,Rate power will lower, MAX 4000m, Refer	
Operating Environment Humidity		20%~95%(Non-condensing)	
Noise		≤50dB	
Gross Weight (Kgs) +/-3%		10.31	11.75
L*W*H (mm) +/-3%		495*312*125	

Model		DUS11048HFP
Input Formation		L+N+PE
AC Input		220/230/240VAC
Input Voltage Range		90-280VAC±3V(Inverter Mode ) 170-280VAC±3V ( UPS Mode )
Frequency		50-60Hz Auto sensing
Rated Output Power		11000W
Dual Output Power		11000W/11000W
Second Load Cut Off Voltage		44V
Second Load Return Voltage		52V
Output Voltage(AC)		220/230/240VAC ± 5%
Output Frequency		50/60Hz ± 0.1%
Output Wave Form		Pure sine wave
Transfer time(AC to DC)		10ms for Computer Equipment, 20ms for Household Equipment
Peak Power		22000VA
Overload Capacity (Battery Mode)		21s@105%~150% Load 11s@150%~200% Load 400ms@>200% Load
Grid connected Operation	Output Voltage	220/230/240VAC
	Grid Voltage Range	195-253VA
	Grid Frequency Range	49-51±1Hz/59-61±1Hz
	Output Current	47.8A
	Power Factor Range	>0.99
Peak Efficiency(Battery Model)		98%
Rated Voltage		48VDC
Constant Charging Voltage		56.4VDC
Float Charging Voltage		54VDC
PV Charging Method		MPPT
Max PV Input Power		2*5500W
PV Input Voltage Range		90-500VDC
MAX PV Input Voltage		500VDC
MAX PV Input Current		18/18A
MAX PV Charge Current		150A
MAX AC Charge Current		150A
MAX Charge Current		150A
LCD Display		AC input Voltage, AC Input frequency, PV Voltage, PV Current, Output Voltage, Output Frequency, Battery Voltage, Load Current etc.
RS232 Port / Wifi Connection		Baud Rate 2400 WiFi
RS485 Port / BMS Communication		Lithium battery BMS communication card etc
Parallel Interface (2x5 PIN/Pitch2.54mm)		Support Parallel
Operating Temperature		-10°C~50°C
Storage Temperature		-15°C~60°C
Ork Altitude		No more than 1000m, If 1000m<, Rate power will lower, MAX 4000m, Refer
Operating Environment Humidity		20%~95%(Non-condensing)
Noise		≤50dB
Gross Weight (Kgs) +/- 3%		10.31
L*W*H (mm) +/- 3%		570.8*500*148.2