

High-Frequency Hybrid Inverter

Europe



Pure Sine Wave Output
(THDv < 3% at Linear Load)



Short Switching Time
(10ms Typical)



Intelligent Operating Mode



WiFi & 4G GPRS Monitoring
(Android)



Built-in MPPT
Solar Controller



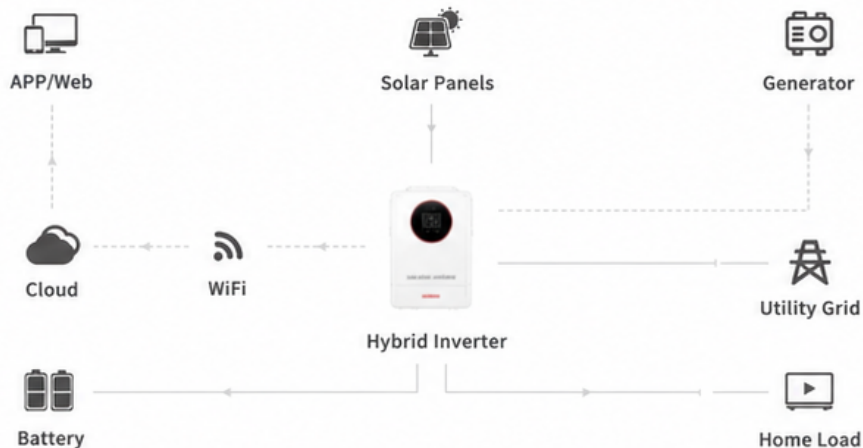
Parallel Operation
(Up to 6 Units)



Built-in Anti-dust Kit
(Suitable for Harsh Environment)



Optimized Battery
Management



Tyon+ High-Frequency Hybrid Inverter

SPECIFICATIONS

Model (DFHY-)	4.2KW	6.2KWBG	13.2KW
Rated Power (VAC)	208/220/230/240V, L+N+PE		
Voltage Range (VAC)	90~280VAC (Utility) ; 170~280VAC (UPS Mode)		
Frequency Range (Hz)	50/60Hz (Auto Detection)		
Rated Output (kW)	4.2	6.2	13.2
Max. Output (kVA)	8.4	12	26.4
Rated Input Voltage (VAC)	208/220/230/240		
Input Frequency (Hz)	50/60Hz±0.1%		
Power Factor	1.0 (Adjustable from 0.8 Leading to 0.8 Lagging)		
Waveform	Pure Sine Wave		
Overload Capability (Utility Mode)	60s@102%~110% Load; 10s@110%~130% Load; 3s@130%~150% Load; 0.2s@150%~150% Load		
Overload Capability (Battery Mode)	>93%	>93%	>93%
Efficiency	>92%	>94%	>94%
Transfer Time	N/A	9ms Typical	6ms Typical
Charger (PV / AC)			
Solar Charger Type	MPPT		
Max. PV Array Open Circuit Voltage (VDC)	18A/5000W	22A/6000W	22A*2/5500W*2
MPPT Voltage Range (VDC)	40~450	120~450	120~450
Max. PV Array Power (VDC)	500	500	500
Max. Solar Charge Current (A)	100	80	150
Max. AC Charge Current (A)	100	80	150
Max. Charge Current (Utility + Solar) (A)	100	80	150
Battery			
Battery Voltage (VDC)	24	48	48
Floating Charge Voltage (VDC)	27	54	54
Overcharge Protection Voltage (VDC)	30.5	61	60
Battery Type	Sealed Lead-Acid / Lithium Battery		
Display			
Display Type	LCD		
Communication Interface	RS485/RS232/USB/Dry Contact		
WiFi	(Optional)		
General Specifications			
Enclosure Protection Rating	IP20		
Operating Temperature Range	-10°C ~ 50°C		
Storage Temperature Range	-15°C ~ 60°C		
Relative Humidity	5%~95% (Non-condensing)		
Noise (dB)	< 62.5	< 67.3	< 70
Dimensions (W*D*H mm)	440*290*100	470*300*110	550*365*130
Net Weight (kg)	40 (with 1000mm ² cables or less)		



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