

## SPECIFICATIONS

SOLAR DC INPUT		
Nominal Power	6500W	
Operation/MPPT Voltage Range	120 to 500VDC / 250 to 430VDC	
Minimum Start Voltage	150VDC	
Maximum Input Current	13A / 13A (Two String Input)	
AC OUTPUT TO LOAD		
	WITH GRID ABSENT	WITH GRID PRESENT
Output Power (Continuous) @25°C	5500W	7000W
Overload 40/20/5/1s @25°C & 240V	5500/--/6500/7500W	--/9600/--/--W
Overload 40/5/1s @25°C & 120V	2750/3250/3750W	NA
Rated Output Current (RMS)	23A (@120V and 240V)	29A (@120V and 240V)
Output Frequency (Auto Sensing)	50/60 Hz	
Output Voltage and Accuracy	L-N: 120V ± 3%; L-L: 240V ± 3%	
Output Voltage Limits	L-L: 180 to 280V (240V Nominal)	
Total Harmonic Distortion (THD)	< 5% at rated power	
Power Factor	>99%	
AC INPUT FROM GRID		
Automatic Transfer Power Rating / Typical Transfer Time	7000W / 20ms	
Input Voltage Range	L-L: 180 to 280V (240V Nominal)	
Input Frequency Range	45 to 54.9Hz / 55 to 65Hz	
AC OUTPUT TO GRID (GRID SUPPORT)		
Output Power (Continuous) @25°C	5000W	
Grid Feed-In Current Range	0 to 24A (@240V)	
Grid Feed-In Voltage Range	L-L: 211 to 264V ± 3.0V	
Grid Feed-In Frequency Range	49.3 to 50.5Hz / 59.3 to 60.5Hz ± 0.05Hz	
EFFICIENCY		
Peak/CEC Weighted (PV to Grid)	96%/95.5%	
System Standby Power	20W	
System Idle Power	< 8W	
DC BATTERY CHARGER		
Max Charge/Discharge Current	60A/150A	
Output Voltage Range	44 to 58V (48V Nominal)	
Compatible Battery Types	AGM (default), Gel, Li-ion, LiFePO <sub>4</sub> , Custom	



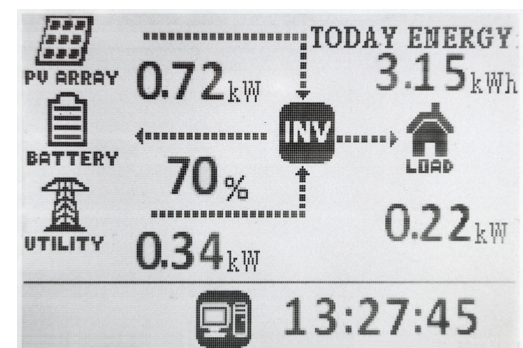
The Darfon H5001 hybrid transformerless inverter is integrated with a distribution box to facilitate easy installation. The distribution box includes quick disconnect terminals, PV and battery disconnects, AC breakers, battery connectors and generator contactor. The H5001 supports a wide range of applications, including off-grid, self-use, net-metering, backup, time-of-use optimization and as a string inverter.

- Nominal 6.5kW PV with dual MPPT
- Up to 7kW continuous output to load
- Three-wire inverter for 240V and 120V direct connection
- 50/60 Hz dual-frequency auto sensing
- Compatible with Lithium or lead-acid batteries
- Manage and monitor system via control panel
- 5-year standard warranty with 5-year extension option

Optional generator kit available and sold separately

GENERAL SPECIFICATIONS	
Weight	39.4kg (86.8 lb)
Dimensions (HxWxD)	990x448x150mm (39x17.6x5.9in)
Protection Rating	NEMA 1 Indoor / IP20
Operating Temperature	0 to 55°C (power derated above 40°C)
Storage Temperature	-25 to 70°C (-13 to 158°F)
Compliances	UL 1741 SA, CSA C22.2, IEEE 1547A, IEEE 1547.1, FCC Class B

MODE DEFINITION	CHARGE FROM	FEED GRID FROM	PV USE PRIORITY			LOAD PRIORITY			
			1	2	3	1	2	3	
1. Back-up (default)	PV or Grid	PV Only	Batt.	Load	Grid	PV	Grid	Batt.	
2. Residential	PV Only	PV Only	Load	Batt.	Grid	PV	Batt.	Grid	
3. Back-up w/o Feed-in	PV or Grid	None	Batt.	Load	-	PV	Grid	Batt.	
4. Residential w/o Feed-in	PV Only	None	Load	Batt.	-	PV	Batt.	Grid	
5. Time-of-Use (TOU)	Off-Peak	PV or Grid	PV Only	Batt.	Load	Grid	PV	Grid	Batt.
	Peak	PV Only	PV Only	Load	Batt.	Grid	PV	Batt.	Grid
6. TOU w/Batt. Feed-in	Off-Peak	PV or Grid	PV Only	Batt.	Load	Grid	PV	Grid	Batt.
	Peak	PV Only	PV or Batt.	Load	Grid	Batt.	PV	Batt.	Grid



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