

H5001 SPECIFICATIONS

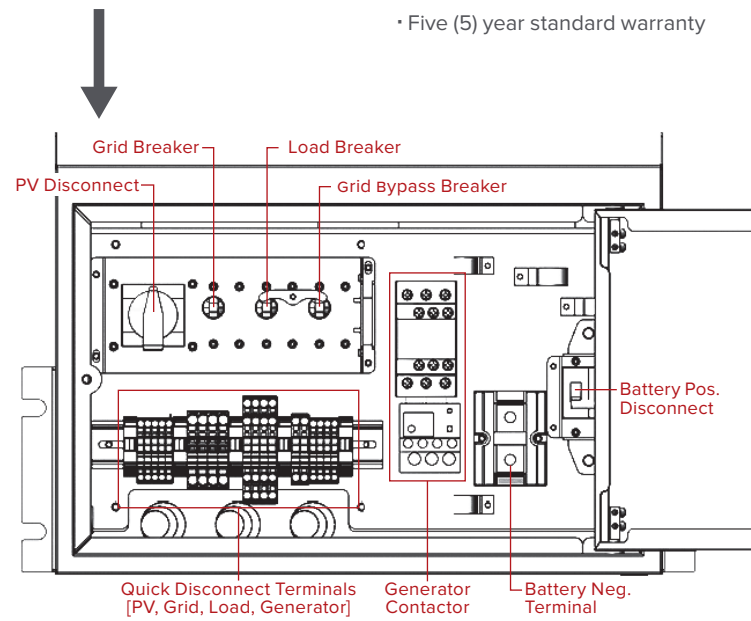
SOLAR DC INPUT	
Max Power	6500W
Operation/MPPT Voltage Range	120 to 500VDC / 250 to 430VDC
Min Start Voltage	150 VDC
Max Input Current	13A / 13A (Two String Input)
INVERTER AC OUTPUT	
Continuous Output Power @ 25°C	5000W
Overload 40sec/5sec/1sec @ 25°C	5500W/6500W/7500W
Rated Output Current (RMS)	21A (@120V and 240V)
Output Frequency (Auto Sensing)	50/60 Hz
Output Voltage	L-N: 120V ± 3%; L-L: 240V ± 3%
AC INPUT FROM GRID	
Automatic Transfer Relay Rating / Typical Transfer Time	33A / 20ms
AC Input Voltage Range	L-L: 180 to 280V (240V Nominal)
AC input Frequency Range	55 to 65 Hz
AC OUTPUT TO GRID	
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	59.4 to 60.4Hz ± 0.05Hz
EFFICIENCY	
Peak/CEC Weighted (PV to Grid)	96%/95.5%
DC BATTERY CHARGER	
Max Charge/Discharge Current	60A/150A
DC Voltage Range	42 to 60V (48V Nominal)
Compatible Battery Types	AGM (default), Gel, Li-ion, LiFePO ₄ , Custom
GENERAL SPECIFICATIONS	
Product Weight	45.0kg (99.2 lb)
Product 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, IEEE 1547, FCC Class B



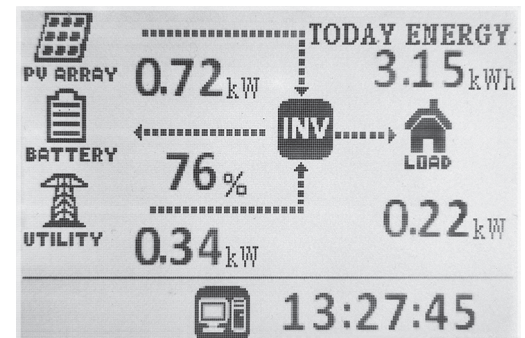
The Darfon H5001 hybrid transformerless inverter is integrated with a distribution box to facilitate easy installation. The distribution box includes quick disconnect terminals, PV and battery disconnects, AC breakers, battery connectors and generator contactor.

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.

- Up to 6.5kW PV with dual MPPT
- Compatible with Lithium or lead-acid based batteries
- Manage and monitor system via control panel!
- Five (5) year standard warranty



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



LCD Display – Power Flows Page