

SPECIFICATIONS

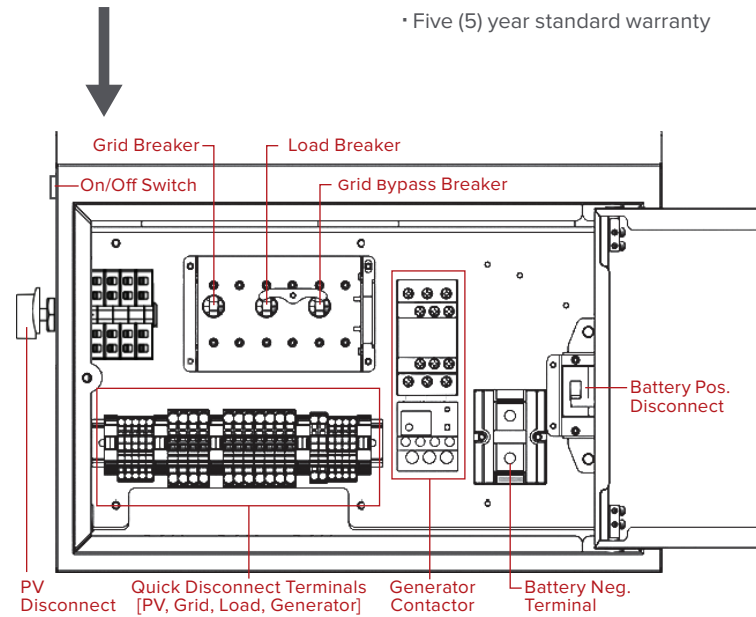
SOLAR DC INPUT	
Max Power	6500W
Operation/MPPT Voltage Range	120 to 500VDC / 250 to 430VDC
Min Start Voltage	150 VDC
Max Input Current	13A / 13A (Two String Input)
INVERTER AC OUTPUT	
Continuous Output Power @ 25°C	5000W
Overload 40sec/5sec/1sec @ 25°C	5500W/6500W/7500W
Rated Output Current (RMS)	21A (@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	48A / 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 SA, IEEE 1547, FCC Class B



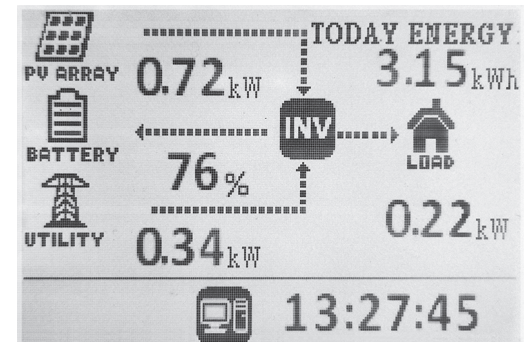
The Darfon H5001 hybrid transformerless inverter is integrated with a distribution box to facilitate easy installation. The distribution box includes quick disconnect terminals, PV and battery disconnects, AC breakers, battery connectors and generator contactor.

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

If you have a limited budget, a light load to support and don't have the floor space, then the H300 series is the solution for you. The H300 series of hybrid storage systems are wall-mountable pre-configured solutions consisting of a H5001 hybrid inverter and 5kWh Lithium batteries (LNMC).

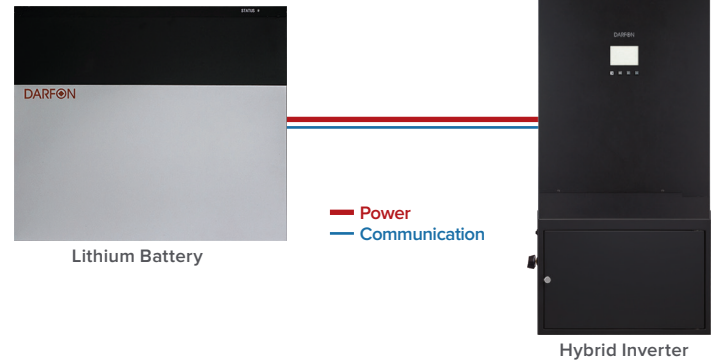
In this series, the H301 has a storage capacity of 5kWh and the H302 has 10kWh. And if the need arises, the H301 can easily be upgraded into the H302.

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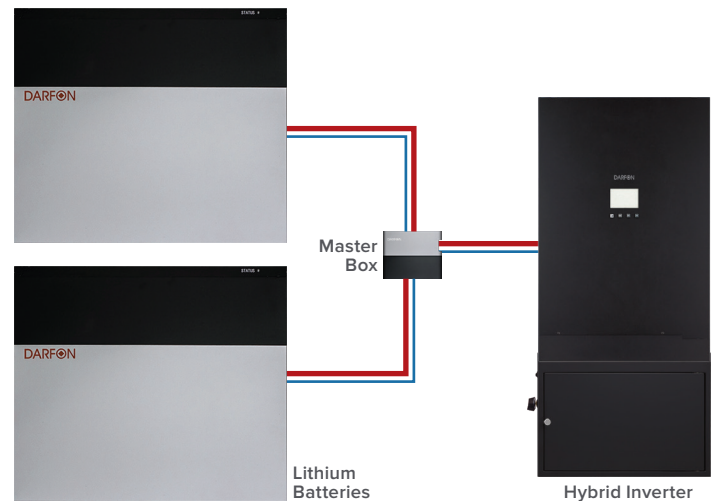
H5001 HYBRID INVERTER	
Continuous AC Output Power @ 25°C	5kW (PV), 2kW (1 Batt.), 3.3kW (2 Batt.)
B05LM LITHIUM BATTERY	
Nominal Voltage	51.1V
Battery Type	Lithium Nickel Manganese Cobalt
Capacity @ 25°C	95.4Ah (4.88kWh)
Cont. Charge/Discharge Current	44A
Peak Discharge Current	58A
Terminal Type / Location	Connector / Side
Depth or Discharge (DOD)	80%
Complete Cycle Life	2500 Cycles at 80% DOD
Battery Management System	OCP/OVP/SCP/OTP
Weight	46.5kg (102.5 lb)
Dimensions (HxWxD)	610x710x167mm (24x28x6.6in)
Protection Rating	NEMA 1 Indoor / IP20
Operating Temperature	-10 to 45°C (14 to 113°F)
Storage Temperature	-40 to 60°C (-40 to 140°F)
Compliances	UL1642, UN38.3, CE
MASTER BOX	
Number of Power Ports	One Inverter, Two Batteries
Communication Ports (Modbus)	One RJ45 (Inverter), Two RJ45 (Battery)
Max. Charge/Discharge Power	2kW (1 Battery), 3.3kW (2 Batteries)
Charge/Discharge Operation Voltage	57.4 VDC / 45.5 VDC
Weight	2kg (4.4 lb)
Dimensions (HxWxD)	122x149x52mm (4.8x5.9x2.0in)
Protection Rating	NEMA 1 Indoor / IP20

DISTRIBUTED BY

H301 CONFIGURATION



H302 CONFIGURATION



- 5kWh Lithium battery included and configured to work out of the box
- Built-in distribution box for fast installation
- Designed for users with a limited budget and houses with less than 2kW load to support
- Transformerless inverter design with true sine-wave AC output and auxiliary port for generator support
- System monitoring and management via the control panel
- Five (5) year standard warranty

WHAT'S INCLUDED

H301	H302
One (1) H5001 Hybrid Inverter	One (1) H5001 Hybrid Inverter
One (1) Mounting Backplate	One (1) Mounting Backplate
One (1) B05LM Lithium Battery	Two (2) B05LM Lithium Battery
Cables: 1 Power, 1 Communication	Cables: 3 Power, 3 Communication
	One (1) Master Box