



H5001 Hybrid Inverter

H301 Hybrid Energy Storage System



B05LM Lithium Battery

H300 Energy Storage System

Model Number: H300

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.

H5001 SPECIFICATIONS

SOLAR DC INPUT	
Max Power	6500W
Operation Voltage Range	120 to 500VDC
MPPT Voltage Range	250 to 430VDC
Min Start Voltage	150 VDC
Max Input Current	13A / 13A (Two String Input)
INVERTER AC OUTPUT	
Continuous Output Power @ 25°C	5kW (PV), 2kW (One Battery), 3.3kW (Two Batteries)
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	48A
Typical Transfer Time	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 PV to Grid	96%
CEC weighted PV to Grid	95.5%
DC BATTERY CHARGER	
Max Charge / Discharge Current	60A / 150A
DC Voltage Range	42 to 60V (48V Nominal)
GENERAL SPECIFICATIONS	
Product Weight	39.4kg (86.8 lbs)
Product Dimensions (H x W x D)	990x448x150mm (39x17.6x5.9in)
Protection Rating	NEMA 1 Indoor / IP20
Operating Temperature	0 to 55°C (32 to 131°F), power derated above 40°C or 104°F
Storage Temperature	-25 to 70°C (-13 to 158°F)
Compliances	UL 1741, IEEE 1547, FCC Class B

B05LM BATTERY SPECIFICATIONS

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	Connector
Terminal Location	Side
Battery Management System	OCP/OVP/SCP/OTP

Depth or Discharge (DOD)	80%
Complete Cycle Life	2500 Cycles at 80% DOD
Weight	45.2kg (99.6 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 SPECIFICATIONS

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

*All specifications are subject to change without notice.

