



# PYLONTECH

## Force H2

### High voltage lithium battery

#### Force H2 - 3.55 kWh Modules

Force H2 high voltage Pylontech batteries are particularly suitable for residential applications because they are aesthetically elegant and can be installed quickly without the need to connect cables between the various elements; in fact, to mount these batteries, simply place them one on top of the other.

The basic module is 3.55 kWh, the depth of discharge is 95% and a capacity of 14.20 kWh can be reached for each 4-module stack. The battery is completed by the BMS, the upper element of the structure, which controls and regulates the charges and discharges of the system.

10 year warranty included, IP55.

Magnetothermic switch installed.



Stack of Batteries



BMS Module



BMS Display

TOP SAFETY LEVEL:

COMPLIANT WITH STANDARD VDE 2510-50



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# Stack of Batteries

Model	Force H2		
Battery module quantity [pcs]	2	3	4
Battery system voltage [V]	192	288	384
Battery system capacity [kWh/Ah] 1 stack	7.10 / 37	10.65 / 37	14.20 / 37
Battery system charge/discharge current [A, normal]	18.5		
Dimension [450x296xA, mm]	822	1118	1414
Weight [kg]	82	117	152
Battery system charge voltage [min~max,V]	174 / 216	261 / 324	348 / 432
Charge / discharge test current [A] (*)	7.4		
Battery system charge/discharge current [A]	40@15s		
Battery module name	FH9637M		
Battery module voltage [V]	96		
Battery module capacity [kWh/Ah]	3.552 / 37		
Depth of Discharge [%]	95		
Efficiency [%]	96		
Battery controller name [BMS]	FC0500M-40S		
Communication bus	Modbus RTU \ CAN		
Operation temperature [°C]	0 ~ 50		
Storage temperature [°C]	-20 ~ 60		
Humidity [%]	5 ~ 95		
Protection class	IP55		
Operation life [years]	15+		
Operation cycle life	>5000		
Transport certificate	UN38.3		
Product certificate	VDE2510-50, IEC62619, IEC62477-1, IEC62040-1, CEC, CE		
Battery controller dimension [WxHxD, mm]	450x190x296		
Battery module dimension [WxHxD, mm]	450x296x296		
Battery bottom base dimension [WxHxD, mm]	450x40x296		

(\*) Current value used to determine the capacity of the battery during test.

## Battery Module



Battery Module

Modello	FH9637M
Cell technology	Li-ion (LFP)
Battery module voltage [V]	96
Battery module capacity [kWh/Ah]	3.552 / 37
Dimension [WxHxD, mm]	450x296x296
Weight [kg]	35
Battery cell voltage [V]	3.2
Battery cell capacity [Wh/Ah]	118.4 / 37
N° cell quantity in series [pcs]	30
Operation temperature [°C]	0 ~ 50
Storage temperature [°C]	-20 ~ 60
Operation life [years]	15
Operation cycle life	5000
Transport certificate	UN38.3

### Energy S.p.A.

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