



# PYLONTECH

## Force H1

### High voltage lithium battery

#### Force H1 - 3.55 kWh Modules

Force H1 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 24.85 kWh can be reached for each 7-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



SAVE YOUR PLANET

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# Stack of Batteries

Modello	Force H1				
Battery module quantity [pcs]	3	4	5	6	7
Battery system voltage [V]	144	192	240	288	336
Battery system capacity [kWh/Ah] 1 stack	10.65 / 74	14.20 / 74	17.76 / 74	21.31 / 74	24.86 / 74
Battery system charge/discharge current [A, normal]	37				
Dimension [600x380xH, mm]	700	870	1040	1210	1380
Weight [kg]	122	158	194	230	266
Battery system charge voltage [min~max,V]	130.5 ~ 162	174 ~ 216	217.5 ~ 270	261 ~ 324	304.5 ~ 378
Charge / discharge test current [A] (*)	14.8				
Battery system charge/discharge current [A, max.]	40@15s				
Battery module name	FH48074				
Battery module voltage [V]	48				
Battery module capacity [kWh/Ah]	3.552 / 74				
Depth of Discharge [%]	95				
Usable capacity [kWh/Ah]	3.374 / 70.3				
Efficiency [%]	96				
Battery controller name [BMS]	FC0500-40S				
Communication bus	CANBUS / Modbus RTU				
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, UL1973, IEC62477-1, IEC62040-1, CEC, CE				
Battery controller dimension [WxHxD, mm]	600x150x380				
Battery module dimension [WxHxD, mm]	600x170x380				
Battery bottom base dimension [WxHxD, mm]	600x40x380				

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

## Battery Module

Modello	FH48074
Cell technology	Li-ion (LFP)
Battery module voltage [V]	48
Battery module capacity [kWh/Ah]	3.552 / 74
Battery Type	2p 15 s
Dimension [WxHxD, mm]	600x170x380
Weight [kg]	36
Battery cell voltage [V]	3.2
Battery cell capacity [Wh/Ah]	118.4 / 37
Operation temperature [°C]	0 ~ 50
Storage temperature [°C]	-20 ~ 60
Operation life [years]	15+
Operation cycle life	5000
Transport certificate	UN38.3



Battery Module

### Energy S.p.A.

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