



# 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 90% 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

# Stack of Batteries

Model	Force H1				
Battery System Capacity [kWh] 1 stack	10.65	14.20	17.76	21.31	24.86
Battery Stack Voltage [Vdc]	144	192	240	288	336
Battery Module Capacity [AH]	74				
Battery Controller Name BMS	FC0500-40S				
Battery Module Name	FH48074				
Battery Module Quantity [pcs]	3	4	5	6	7
Battery System Charge Upper-Voltage [Vdc]	162	216	270	324	378
Battery System Charge Current [Amps, Normal]	37				
Battery System Charge Current [Amps, Max.@15s]	40				
Battery System Discharge Lower-Voltage [Vdc]	130.5	174	217.5	261	304.5
Battery System Discharge Current [Amps, Normal]	37				
Battery System Discharge Current [Amps, Max.@15s]	40				
Efficiency [%]	96				
Depth of Discharge [%]	90% (8 - 98% SOC)				
Dimension [600x380xH, mm]	700	870	1040	1210	1380
Communication	Modbus RTU \ CAN				
Protection Class	IP55				
Weight [kg]	122	158	194	230	266
Operation Life [Years]	15				
Operation Cycle Life	>5000				
Operation Temperature [°C]	0~50°C				
Storage Temperature [°C]	-20 ~60°C				
Humidity	5~95%				
Product Certificate	VDE2510-50, IEC62619, UL1973, IEC62477-1, IEC62040-1, CEC, CE				
Transport Certificate	UN38.3				
1. Battery Controller Dimensions [WxDxH]	600x380x150 mm				
2. Battery Module Dimensions [WxDxH]	600x380x170 mm				
3. Battery bottom base Dimensions [WxDxH]	600x380x40 mm				



Battery Module

## Battery Module

Model	FH48074
Cell Technology	Li-ion (LFP)
Battery Module Capacity [kWh]	3.552
Battery Module Voltage [Vdc]	48
Battery Module Capacity [Ah]	74
Battery Type	2p 15 s
Battery Cell Voltage [Vdc]	3.2
Battery Cell Capacity [AH]	37
Dimension [WxDxH, mm]	600x380x170
Weight [kg]	36
Operation Life	15 years
Operation Cycle Life	5000
Operation Temperature [°C]	0~50°C
Storage Temperature [°C]	-20 ~60°C
Transport Certificate	UN38.3