

# Force-H3

## High voltage lithium battery

**Pylontech's Force H3 high voltage storage system** is based on 5.12 kWh modules.

The BMS allows you to assemble a stack with up to 7 modules (\*). Up to 6 Force-H3 battery stacks can be connected in parallel, making the system scalable and suitable for different needs, from residential to commercial applications.

The total capacity of the system depends on the chosen configuration and compatibility with the inverter used.

**In the case of the zeroCO<sub>2</sub> large inverter, CEI 0-21 certified, the use of 2 to 5 modules per stack is envisaged.**

*(\*) For the min and max number, check the compatibility with the combined inverter.*



Stack of Batteries



BMS Display

### **TOP SAFETY LEVEL:**

Compliant with standard VDE 2510-50

MODEL	Force-H3					
Cell technology	Li-ion (LFP)					
Battery module quantity [pcs]	2	3	4	5	6	7
Battery system voltage [V]	204.8	307.2	409.6	512	614.4	716.8
Battery system capacity [kWh/Ah]	10.24/50	15.36/50	20.48/50	25.6/50	30.72/50	35.84/50
BMS module name	FC1000					
Battery module name	FH10050					
Battery system max charge voltage [V]	230.4	345.6	460.8	576	691.2	806.4
Battery system min discharge voltage [V]	185.6	278.4	371.2	464	556.8	649.6
Charge / discharge test current [A] (*)	10					
Battery system charge/discharge current [A]	50					
Battery system max charge/discharge current [A]	55 @15'					
Short circuit evaluation [A]	<3000					
Efficiency [%]	96					
Depth of Discharge [%]	95					
Communication bus	CANBUS/Modbus RTU					
Operation temperature [°C]	-10 ~ 55					
Storage temperature [°C]	-20 ~ 60					
Humidity [%]	5 ~ 95 (without condensation)					
Altitude [m]	<4000					
Protection degree	IP55					
Operation life [years]	10+					
Transfer Certificate	UN38.3					
Product certificate	UL1973, IEC62619, IEC63056, VDE-AR-E 2510-50, UL9540A, CE RED, CE LVD					
Dimensions 540x350xH [mm]	530	700	870	1040	1210	1380
Weight [kg]	92	131	170	209	248	287

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



BMS Module

MODEL	FC1000
Working voltage [V]	80-1000
System voltage [V]	172,8 - 921,6
Standby consumption [W]	<16
Communication	CANBUS/Modbus RTU
Dimensions [WxHxD, mm]	540x150x350
Weight [kg]	12
Operation life [years]	15+
Operation cycle life	8000
Operation temperature [°C]	-10 ~ 55
Storage temperature [°C]	-20 ~ 60



Battery Module

MODEL	FH10050
Cell Technology	Li-ion (LFP)
Nominal capacity [kWh/Ah]	5,12 / 50
Battery voltage [V]	102,4
Cell number	32
Cell voltage [V]	3,2
Cell capacity [Ah]	50
Dimensions [WxHxD, mm]	540x170x350
Weight [kg]	39
Operation life [years]	15+
Operation cycle life	8000
Operation temperature [°C]	-10 ~ 55
Storage temperature [°C]	-20 ~ 60
Transport certificate	UN38.3