



PYLONTECH

Force L1

Low voltage lithium battery

Force L1 - 3,55 kWh Modules

Force L1 low 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 stack 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.



BMS Module



Stack of Batteries



BMS Display

TOP SAFETY LEVEL:

COMPLIANT WITH STANDARD VDE 2510-50



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Stack of Batteries

Model	Force L1					
Battery System Capacity [kWh] 1 stack	7.10	10.65	14.20	17.76	21.31	24.86
Battery System Voltage [Vdc]	48					
Battery System Capacity [AH]	148	222	296	370	444	518
Battery Controller Name BMS	FC0048-100S					
Battery Module Name	FL48074					
Battery Module Quantity [pcs]	2	3	4	5	6	7
Battery System Charge Upper-Voltage [Vdc]	53.5					
Battery System Charge Current [Amps, Normal]	75	100				
Battery System Charge Current [Amps, max. @ 15 s]	110					
Battery System Discharge Lower-Voltage [Vdc]	44.5					
Battery System Discharge Current [Amps, Normal]	75	100				
Battery System Discharge Current [Amps, max. @ 15 s]	110					
Efficiency [%]	96					
Depth of Discharge [%]	90					
Dimension [600x380xH, mm]	530	700	870	1040	1210	1380
Communication	RS485\CAN					
Protection Class	IP55					
Weight [kg]	86.5	123	159.5	196	232.5	269
Operation Life [Years]	15					
Operation Cycle Life	>6000					
Operation Temperature [°C]	0~50°C					
Storage Temperature [°C]	-20 ~60°C					
Altitude [mt]	<2000					
Product Certificate	VDE2510-50, IEC62619, CE RED, IEC62477-1, CEC					
Transport Certificate	UN38.3					
Battery Controller Dimension [WxDxH]	600×380×150					
Battery Module Dimension [WxDxH]	600×380×170					
Battery bottom base Dimension (WxDxH)	600×380×40					



Battery Module

Battery Module

Model	FL48074
Cell Technology	Li-ion (LFP)
Battery Module Capacity [kWh]	3.552
Battery Module Voltage [Vdc]	48
Battery Module Capacity [Ah]	74
Battery Type	2p15s
Battery Cell Voltage [Vdc]	3.2
Battery Cell Capacity [AH]	37
Dimension [WxDxH, mm]	600x380x170
Weight [kg]	36.5
Operation Life	15 years
Operation Cycle Life	6000
Operation Temperature [°C]	0~50°C
Storage Temperature [°C]	-20 ~60°C
Transport Certificate	UN38.3

Energy Srl

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