

Force L1

Low voltage lithium battery

Force L1 - 3,55 kWh Modules

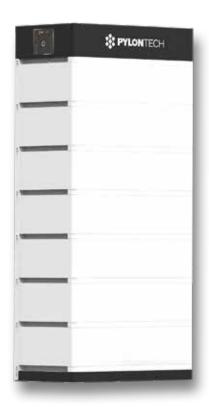
Force L1 low voltage Pylontech batteries are particularly suitable for residential applications because they are aesthetically elegant and can be installed quickly without the need to connect cables between the various elements; in fact, to mount these batteries, simply place them one on top of the other.

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



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 [%] | | | 9 | 0 | | |
| 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) | | | 600×3 | 80×40 | | |



Battery Module

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|-------------------------------|--------------|
| 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 |



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