

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 95% 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					
Item code (battery module)	90040227					
Item code (BMS)	90040228					
Battery module quantity [pcs]	2	3	4	5	6	7
Battery system voltage [V]	48					
Battery system capacity [kWh/Ah] 1 stack	7.10 / 148	10.65 / 222	14.20 / 296	17.76 / 370	21.31 / 444	24.86 / 518
Battery system charge/discharge current [A, normal]	75	100				
Dimension [450x296xH, mm]	530	700	870	1040	1210	1380
Weight [kg]	86.5	123	159.5	196	232.5	269
Battery system charge voltage [min~max,V]	44.5 ~ 53.5					
Charge / discharge test current [A] (*)	30	45	60	75	90	100
Battery system charge/discharge current [A, max.]	110@15s					
Battery module name	FL48074					
Battery module voltage [V]	48					
Battery module capacity [kWh/Ah]	3.552 / 74					
Depth of Discharge [%]	95					
Efficiency [%]	96					
Battery controller name [BMS]	FC0048-100S					
Communication bus	RS485\CAN					
Operation temperature [°C]	0 ~ 50					
Storage temperature [°C]	-20 ~ 60					
Altitude [mt]	<2000					
Protection class	IP55					
Transport certificate	UN38.3					
Product certificate	VDE2510-50, IEC62619 , CE RED, IEC62477-1, CEC					
Battery controller dimension [WxHxD]	600x150x380					
Battery bottom base dimension [WxHxD]	600x40x380					

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

Battery Module

Model	FL48074
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]	36.5
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	6000
Transport certificate	UN38.3



Battery Module



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