



PYLONTECH

Force L2

Low voltage lithium battery

Force L2 - 3.55 kWh modules

Force L2 low voltage Pylontech batteries are particularly suitable for residential applications because they are aesthetically elegant and can be installed quickly, even in small spaces, 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 14.20 kWh

can be reached for each 4-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.

Up to 6 stacks can be mounted in parallel in the same 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



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Stack of Batteries

Model	Force L2		
Item code [battery module]	90040225		
Item code [BMS]	90040226		
Battery module quantity [pcs]	2	3	4
Battery system voltage [V]	48		
Battery system capacity [kWh/Ah] 1 stack	7.10 / 148	10.65 / 222	14.20 / 296
Battery system charge/discharge current [A, normal]	75	100	
Dimension [450x296xH, mm]	822	1120	1415
Weight [kg]	82	117.5	153
Battery system charge voltage [min~max,V]	44.5 ~ 53.5		
Charge / discharge test current [A] (*)	30	45	60
Battery system charge/discharge current [A, max.]	110@15s		
Battery module name	FL4874M		
Battery module voltage [V]	48		
Battery module capacity [kWh/Ah]	3.552 / 74		
Depth of Discharge [%]	95		
Efficiency [%]	96		
Battery controller name [BMS]	FC0048M-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, mm]	450x190x296		
Battery bottom base dimension [WxHxD, mm]	450x40x296		

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



Battery Module



Battery Module

Model	FL4874M
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]	450x296x296
Weight [kg]	35.5
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

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