

PYLONTECH US

Pylontech is a lithium battery: modular, with 19' rack format, at 25,6V and 2,55 kWh and 48V available at 2,4 and 3,5 kWh Storage capacity and designed to work more than 6000 cycles with 80 % DoD.



Pylontech UP2500



Bornay Pylontech US2000B



Bornay Pylontech US3000



Pylontech US5000



Bornay Pylontech Brackets

Pylontech lithium LiFePo4 batteries, are Low Voltage modular batteries, with a nominal voltage of 24 and 48 volts under 19' Rack format, and compatible with the main inverter manufacturers: Victron Energy, Voltronic, Studer, Voltronic, Sungrow, Imeon ...

Pylontech batteries can be installed in parallel into the same Rack, with a maximum of 8 units for model US2000B, 12 units of model US300 or up to 16 units of model US 5000; and by using Pylontech LV-Hub you can install up to 5 Racks in parallel, that allow us to arrive to big capacity storage systems with lithium batteries, from 2,4 up to 210 kWh.

Pylontech UP2500 at 25,6 volts and 2,55 kWh of capacity we can install up to 20 units in parallel with a peak power storage of 51 kWh.

Pylontech lithium batteries have a series of advantages like:

Battery Management Systems (BMS)

Each battery has his own **BMS, Battery Management System** that controls the charge, discharge and temperature of the battery, and prevent damages when security parameters are exceeded and including a cell balance system.

Cycle Life

Vertical industry integration ensures more than **6000 cycles with 90% DoD** Compact and fashionable design fits in your sweet home environment Modular design gives the end customers the power of choice of capacity.

Weight

Compared with other battery technologies, like Lead Acid, Lithium battery is much more lighter. In this case, each Pylontech module has a weight between 24 to 32 Kgr, depending of the model.

Charge / Discharge capacity

Recommended Charge / Discharge capacity on this batteries is 0,5 C (25 to 37 Amp depending of the model), and allow a capacity up to 1 C (50 to 37 Amp depending of the model), and a maximum charge / discharge capacity of 100 Amp during a period of 15 seconds.

Modularity

As show, his 19' Rack format allow multiple configurations. Pylontech Lithium batteries can be installed over any Rack or using Pylontech brackets

SPECIFICATIONS

	UP 2500	US 2000C	US 3000C	US 5000
Electrical Specifications				
Nominal Voltage	25,6 Vcc	48 Vcc	48 Vcc	48 Vcc
Nominal capacity	2840 Wh	2400 Wh	3552 Wh	4800 Wh
Usable capacity	2550 Wh	2280 Wh	3374 Wh	4560 Wh
Discharge voltage	23,0 - 28,8 Vdc	45,0 - 53,5 Vdc	45,0 - 53,5 Vdc	44,5 - 53,5 Vdc
Charge voltage	28,2 - 28,8 Vdc	52,5 - 53,5 Vdc	52,5 - 53,5 Vdc	52,5 - 53,5 Vdc
Recommended charge / discharge	56 Amp	25 Amp	37 Amp	100 Amp
Maximum charge / discharge		50 Amp	100 Amp	120 Amp
Peak charge / discharge	111 Amp @15 sec	100 Amp @15 sec	100 Amp @ 15 sec	200 Amp @ 15 sec
Configuration				
Maximum number of units per string	20	16	16	16
Maximum number of strings	1	5 with Pylontech HUB-LV	5 with Pylontech HUB-LV	5 with Pylontech HUB-LV
Communications ports	RS232, RS485, CAN	RS232, RS485, CAN	RS232, RS485, CAN	RS485, CAN
Environmental specifications				
Working temperature	0 - 50 ° C	0 - 50 ° C	0 - 50 ° C	0 - 50 ° C
Storage temperature	-20 - 60 ° C	-20 - 60 ° C	-20 a 60 ° C	-20 a 60 ° C
Humidity	5 - 90 %	5 - 85 %	5 - 85 %	5 - 95 % (no condensation)
Maximum altitude	2000 mts	2000 mts	2000 mts.	< 4000 mts
Life				
Cycle Life	> 6000 at 25 °C	> 6000 at 25 °C	> 6000 at 25 °C	> 6000 at 25 °C
Design life	+ 10 years at 25 °C	+ 15 years at 25 °C	+ 15 years at 25 °C	+ 15 years at 25 °C
Physical specifications				
Dimmensions	442 x 420 x 119 mm	442 x 410 x 89 mm	442 x 420 x 132 mm	442 x 420 x 161 mm
Weight	27,5 Kgr	24 Kgr	32 Kgr	39,5 Kgr
Standards				
Standards	TÜV, CE, IEC62619/C, UN38.3	TÜV, CE, IEC62619/C, UN38.3	TÜV, CE, VDE2510-50, IEC62619, UL1973, UL9540A, UN38.3	TÜV, CE, IEC62619, IEC63056, UL197, 3 UL9540A, UN38.3, UKCA

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MANUAL PYLONTECH UP2500

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CONFIGURACIÓN VICTRON ENERGY

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