

# PYLONTECH FORCE H1

Pylontech Force H1 battery is the latest version of High voltage battery storage system provided by Pylontech. The newly designed system provides easy connector to save valuable time for installaters. The stacking system provides flexible configurations from 48V to 384V voltage and 3.5 kWh to 24.86 kWh capacity.



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High voltage battery Pylontech Force H1, for Residential Battery Energy Storage systems, provides a flexible configuration from 48V to 384V and 3.5 kWh to 24.86 kWh of energy storage.

Pylontech Force H1 residential BESS provides:

## Safety

Multi-protection from self developed BMS

## Optimal Electricity Cost

Long cycle life and superior performance

## Compact Size & Easy Installation

Module design help for quick installation

## Easy to Scale Up

Be workable to be parallel based on 48V

## Compatibility

Compatible with Tier 1 inverter brands

How to save bill from Residential ESS?

## 1. Self-Consumption Optimization

High energy demand in the morning and evening but solar generation is most sufficient during the Mid-Day. Battery Storage system balance the feeding and demands. Realize your grid independence.

## 2. Benefits from Peak Shaving

### House: Load Shifting

Store the power during low-peak and use the energy at peak -time. Save the money which happens arising from peak rate.

### Transmission & Distribution: peak Shaving

Save on the electricity bills by reducing peak demand

## SPECIFICATIONS

	FH48074	FORCE H1 3M	FORCE H1 4M	FORCE H1 5M	FORCE H1 6M	FORCE H1 7M
<b>Electrical specifications</b>						
Nominal Voltage	48 Vdc	144 Vdc	192 Vdc	240 Vdc	288 Vdc	336 Vdc
Nominal Capacity	3552 Wh	10,65 kWh	14,20 kWh	17,76 kWh	21,31 kWh	24,86 kWh
Usable Capacity	3374 Wh	10,12 kWh	13,50 kWh	16,87 kWh	20,24 kWh	23,62 kWh
Operating voltage range	45,0 - 53,5 Vdc	130,5 - 162 Vdc	174 - 216 Vdc	217,5 - 270 Vdc	261 - 324 Vdc	304,5 - 378 Vdc
Recommended current charge / discharge	37 Amp	37 Amp	37 Amp	37 Amp	37 Amp	37 Amp
Maximum current charge / discharge		40 Amp @15 sec	40 Amp @15 sec	40 Amp @15 sec	40 Amp @15 sec	40 Amp @15 sec
<b>Configuration</b>						
Modules in serial	1-7	3	4	5	6	7
BMS Module		FC0500-40S	FC0500-40S	FC0500-40S	FC0500-40S	FC0500-40S
Communication ports		RS232, RS485, CAN	RS232, RS485, CAN	RS232, RS485, CAN	RS232, RS485, CAN	RS232, RS485, CAN
<b>Environmental specifications</b>						
Operating temperature range	0 - 50 ° C	0 - 50 ° C	0 - 50 ° C	0 - 50 ° C	0 - 50 ° C	0 - 50 ° C
Storage temperature range	-20 to 60 ° C	-20 to 60 ° C	-20 to 60 ° C	-20 to 60 ° C	-20 to 60 ° C	-20 to 60 ° C
Humidity	5 - 95 % (without condensation)	5 - 95 % (without condensation)	5 - 95 % (without condensation)	5 - 95 % (without condensation)	5 - 95 % (without condensation)	5 - 95 % (without condensation)
Maximum altitude	< 2000 mts	< 2000 mts	< 2000 mts	< 2000 mts	< 2000 mts	< 2000 mts
<b>Life</b>						
Life cycles	> 5000 to 25 ° C	> 5000 to 25 ° C	> 5000 to 25 ° C	> 5000 to 25 ° C	> 5000 to 25 ° C	> 5000 to 25 ° C
Life design	+ 15 years at 25 ° C	+ 15 years at 25 ° C	+ 15 years at 25 ° C	+ 15 years at 25 ° C	+ 15 years at 25 ° C	+ 15 years at 25 ° C
<b>Physical specifications</b>						
Dimmensions	600 x 380 x 170 mm	600 x 380 x 700 mm	600 x 380 x 870 mm	600 x 380 x 1040 mm	600 x 380 x 1210 mm	600 x 380 x 1380 mm
Weight	36 Kgr	122 Kgr	158 Kgr	194 Kgr	230 Kgr	266 Kgr
<b>Standards</b>						
Standards	UN38.3	TÜV, CE VDE2510-50 IEC62619 UL1973 IEC62477-1 IEC62040-1 CEC UN38.3	TÜV, CE VDE2510-50 IEC62619 UL1973 IEC62477-1 IEC62040-1 CEC UN38.3	TÜV, CE VDE2510-50 IEC62619 UL1973 IEC62477-1 IEC62040-1 CEC UN38.3	TÜV, CE VDE2510-50 IEC62619 UL1973 IEC62477-1 IEC62040-1 CEC UN38.3	TÜV, CE VDE2510-50 IEC62619 UL1973 IEC62477-1 IEC62040-1 CEC UN38.3

## DOWNLOADS

### PYLONTECH RESIDENTIAL BESS FORCE SERIES BROCHURE

 Residential BESS - Force series.pdf Size: 1.7 MiB

### OPERATING MANUAL PYLONTECH FORCE H1

 Operating Manual Pylontech Force-H1 Size: 5.24 MiB  
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