

2.2.1 System Parameter

2.2.1.1 Single group system parameter

Product Type	Force-H1-V2					
Cell Technology	Li-iron (LFP)					
Battery System Capacity(kWh)	7.10	10.65	14.20	17.76	21.31	24.86
Battery System Voltage (Vdc)	96	144	192	240	288	336
Battery System Capacity (AH)	74Ah					
Battery Controller Name	FC0500-40S-V2					
Battery Module Name	FH48074					
Battery Module Quantity(pcs)	2	3	4	5	6	7
Battery Module Capacity(kWh)	3.552					
Battery Module Voltage (Vdc)	48					
Battery Module Capacity (AH)	74					
Battery System Charge Upper Voltage (Vdc)	108	162	216	270	324	378
Battery System Charge Current (Amps, Standard)	14.8					
Battery System Charge Current (Amps, Normal)	37					
Battery System Charge Current (Amps, Max.@15s)	42					
Battery System Discharge Lower Voltage (Vdc)	87	130.5	174	217.5	261	304.5

Product Type	Force-H1-V2					
Battery System Discharge Current (Amps, Standard)	14.8					
Battery System Discharge Current (Amps, Normal)	37					
Battery System Discharge Current (Amps, Max.@15s)	42					
Short circuit rating (Amps)	< 4000					
Efficiency (%)	96					
Depth of Discharge (%)	95					
Dimension(W*D*H, mm)	600*380 *530	600*380 *700	600*380 *870	600*380 *1040	600*380 *1210	600*380 *1380
Communication	CANBUS/Modbus RTU					
Protection Class	IP55					
Weight (kg)	86	122	158	194	230	266
Operation Life (Years)	15+					
Operation Temperature(°C)	0~50°C					
Storage Temperature(°C)	-20~60°C					
Altitude(m)	<2000					
Humidity	5~95%					
Product Certificate	VDE-AR-E 2510-50, IEC62619, IEC63056, IEC62040-1, 2014/53/EU(RED),UL 1973					
Transfer Certificate	UN38.3					
1) Battery Controller Dimensions (W*D*H)	600×380×150mm					
2) Battery Module Dimensions (W*D*H)	600×380×170mm					
3) Battery bottom base Dimensions (W*D*H)	600×380×40mm					

2.2.1.2 Multi-groups system parameter (Max. 6 groups per system)

For multi-groups operation, please make sure the battery type in the whole system is the same, please make sure the battery amount of each group is the same.

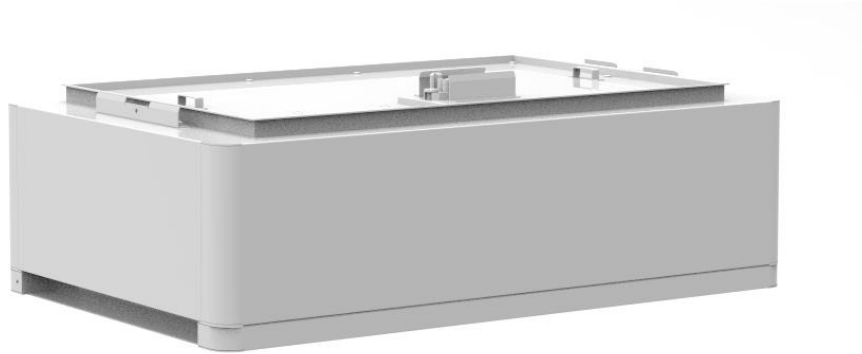
Product Type	Force-H1-V2 in multi-groups				
Battery System Voltage (Vdc) *	96/144 / 192 / 240 / 288 / 336				
Battery System group amount(pcs)	2	3	4	5	6
Battery System capacity (AH)	148	222	296	370	444
Battery System Operation Current(Amps, Standard)	29.6	44.4	59.2	74	88.8
Battery System Operation Current(Amps, Normal)	74**	111**	148***	185***	222***
Battery System Operation Current (Amps, Max.@15s)	84**	126**	168***	210***	252***
P-Combiner 3/6 Operation Current (Amps, Normal)	50		100		
P-Combiner 3/6 Operation Current (Amps, Max.@15s)	80		160		

*The Battery System Voltage is varying depends on battery amount in serial per group.

**The current is based on BMS theoretical operation current to consider. If use P-Combiner 3 as the combiner box of the multi-groups` battery system wiring connection, the max. continuous operation current is 50Amps, max. peak operation current is 80Amps for 15sec. for the battery system. Please make sure the real operation current not exceed the combiner box power rating.

***The current is based on BMS theoretical operation current to consider. If use P-Combiner 6 as the combiner box of the multi-groups` battery system wiring connection, the max. continuous operation current is 100Amps, max. peak operation current is 160Amps for 15sec. for the battery system. Please make sure the real operation current not exceed the combiner box power rating.

2.2.2 Battery Module (FH48074)

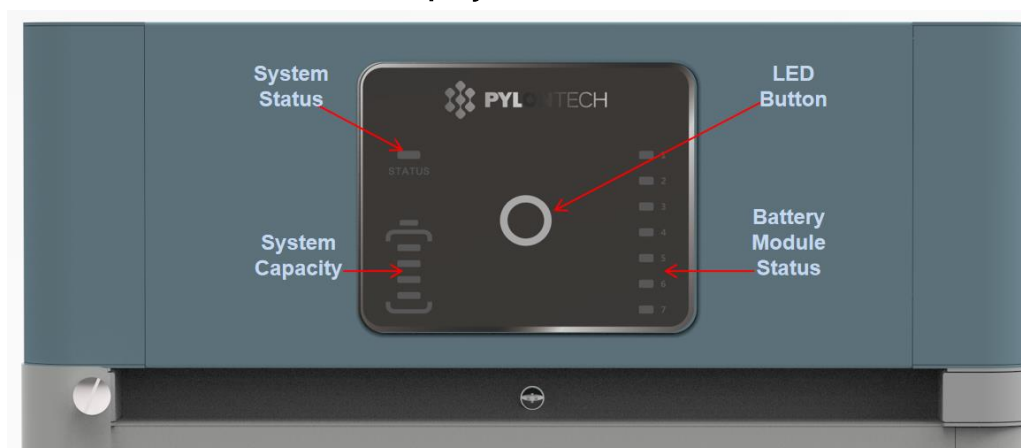


Product Type	FH48074
Cell Technology	Li-ion (LFP)
Battery Module Capacity (kWh)	3.552
Battery Module Voltage (Vdc)	48
Battery Module Capacity (Ah)	74
Battery Module Serial Cell Quantity (pcs)	15
Battery Cell Voltage (Vdc)	3.2
Battery Cell Capacity (AH)	37
Dimension (W*D*H, mm)	600*380*170
Weight (kg)	36
Operation Life	15+Years
Operation Cycle Life	5,000
Operation Temperature	0~50°C
Storage Temperature	-20~60°C
Transfer Certificate	UN38.3

2.2.3 Control Module FC0500-40S-V2 (internal power supply)



Control Module (FC0500-40S-V2) Display Panel



LED Button

	Short Press	Display the LED panel for 20sec.
	Long Press 1 (between 5 to 10 seconds)	When status LED fast flashes blue ●, loss the button, then it is 115200 baud rate of RS485. When status LED fast flashes orange ●, loss the button, then it is 9600 baud rate of RS485. If a special protocol (except Pylontech Protocol), is selected follow 'Long Press 2', then the baud rate changing described here is ineffective.
	Long Press 2 (more than 10sec)	Communication Protocol Selection, for details please check with Pylontech service team

Force-H1



Maximum Scalability



Flexible Mounting



Plug & Play



Remote Maintenance



Module

2

3

4

5

6

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Battery Module			FH48074				
Nominal Voltage (VDC)			48				
Battery Module Capacity (kWh)			3.55				
Battery System Capacity (kWh)		7.1	10.65	14.21	17.76	21.31	24.86
Usable Capacity (kWh)		6.75	10.12	13.5	16.87	20.24	23.62
Battery System Voltage(VDC)		96	144	192	240	288	336
Dimension (W*D*H mm)		600*380*530	600*380*700	600*380*870	600*380*1040	600*380*1210	600*380*1380
Weight (kg)		86	122	158	194	230	266
Depth of Discharge			95%				
Charge/ Discharge (A)	(Normal)	37					
	(Max)	42 @15S					
Communication port			Modbus RTU/CAN				
Multi-group			Max. 6 groups in parallel				
IP rating			IP55				
Working Temperature/ (°C) Charge			0~55				
Storage Temperature/ (°C)			-20~45				
Humidity (RH)			5%-95% No Condensation				
Altitude (m)			<2000				
Design life (@25°C)			15+ Years				
Cycle life (@25°C)			>8,000				
Certification			CE/IEC62040-1/IEC62477/IEC62619/UL1973/UN38.3/VDE2510-50				