

2. System Introduce

2.1 Product Introduce

Force-H1-V2 is a high voltage battery storage system based on lithium iron phosphate battery, which is one of the new energy storage products developed and produced by Pylontech. It can be used to support reliable power for various types of equipment and systems. Force-H1-V2 enabled multiple strings` parallel operation feature, which provide tremendous flexibility in system design and configuration. Force-H1-V2 is especially suitable for those application scenes which required high power output, limited installation space, restricted load-bearing and long cycle life.

2.2 Specifications



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

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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					