

2. System Introduce

2.1 Product Introduce

Force-H2-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-H2-V2 enabled multiple strings` parallel operation feature, which provides tremendous flexibility in system design and configuration. Force-H2-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-H2-V2		
Cell Technology	Li-iron (LFP)		
Battery System Capacity(kWh)	7.10	10.65	14.20
Battery System Voltage(Vdc)	192	288	384
Battery System Capacity(AH)	37Ah		
Battery Controller Name	FC0500M-40S-V2		
Battery Module Name	FH9637M		
Battery Module Quantity(pcs)	2	3	4
Battery Module Capacity(kWh)	3.552		
Battery Module Voltage(Vdc)	96		
Battery Module Capacity(AH)	37		
Battery System Charge Upper Voltage(Vdc)	216	324	432
Battery System Charge Current(Amps, Standard)	7.4		
Battery System Charge Current(Amps, Normal)	18.5		
Battery System Charge Current(Amps, Max.@15s)	42		
Battery System Discharge Lower Voltage(Vdc)	174	261	348
Battery System Discharge Current(Amps, Standard)	7.4		
Battery System Discharge Current(Amps, Normal)	18.5		
Battery System Discharge Current(Amps, Max.@15s)	42		
Short circuit rating(Amps)	< 4000		

Product Type	Force-H2-V2		
Efficiency (%)	96		
Depth of Discharge (%)	95		
Dimension (W*D*H, mm)	450*296*822	450*296*1118	450*296*1414
Communication	CANBUS/Modbus RTU		
Protection Class	IP55		
Weight (kg)	82	117	152
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)		
Transfer Certificate	UN38.3		
1) Battery Controller Dimensions(W*D*H) 2) Battery Module Dimensions (W*D*H) 3) Battery bottom base Dimensions(W*D*H)	450×296×190 mm 450×296×296mm 450×296×40 mm		