

Force-H2



Maximum Scalability



Flexible Mounting



Plug & Play



Remote Maintenance



Module

Battery Module		FH9637M			
Nominal Voltage (VDC)		96			
Battery Module Capacity (kWh)		3.55			
Battery System Capacity (kWh)		7.1	10.65	14.21	17.76
Usable Capacity (kWh)		6.75	10.12	13.5	16.78
Battery System Voltage(VDC)		192	288	384	480
Dimension (W*D*H mm)		450*296*822	450*296*1118	450*296*1414	450*296*1710
Weight (kg)		82	117.5	152	188.5
Depth of Discharge		95%			
Charge/ Discharge (A)	(Normal)	18.5			
	(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/CEC/IEC62040-1/IEC62619/IEC63056/VDE-AR-E 2510-50			

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		

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-H2-V2 in multi-groups				
Battery System Voltage (Vdc) *	192 / 288 / 384				
Battery System group amount(pcs)	2	3	4	5	6
Battery System capacity (AH)	74	111	148	185	222
Battery System Operation Current(Amps, Standard)	14.8	22.2	29.6	37	44.4
Battery System Operation Current(Amps, Normal)	37	55.5**	74	92.5	111***
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 (FH9637M)



Product Type	FH9637M
Cell Technology	Li-ion (LFP)
Battery Module Capacity (kWh)	3.552
Battery Module Voltage (Vdc)	96
Battery Module Capacity (Ah)	37
Battery Module Serial Cell Quantity (pcs)	30
Battery Cell Voltage (Vdc)	3.2
Battery Cell Capacity (AH)	37
Dimension (W*D*H, mm)	450*296*296
Weight (kg)	35
Operation Life	15+Years
Operation Cycle Life	5,000
Operation Temperature	0~50℃
Storage Temperature	-20~60℃
Transfer Certificate	UN38.3