

**Pylontech
New Residential
Solutions**

Powered by the Force H1/H2



PYLONTECH FORCE-H1/H2

The Force H1/H2 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 96V to 384V voltage and 7.1 kWh to 24.86 kWh capacity.

The white/black steel color reflects the strong capability of holding energy. The indoor/outdoor compatible feature provides more possibilities of installation. Ideal for large home and small commercial application.



7.10~24.86 kWh

Flexible Mounting

Plug&Play

90% DOD



Technical Specification

Product Type	Force-H1				
Cell Technology	Li-iron (LFP)				
System Model Name	Force-H1-48/144V	Force-H1-48/192V	Force-H1-48/240V	Force-H1-48/288V	Force-H1-48/336V
Battery System Capacity(kWh)	10.65	14.20	17.76	21.31	24.86
Battery System Usable Capacity(kWh)	9.59	12.78	15.94	19.18	22.37
Battery System Voltage(Vdc)	144	192	240	288	336
Battery System Capacity(AH)	74Ah				
Battery Controller Name	FC0500-40S				
Battery Module Name	FH48074				
Battery Module Quantity(pcs)	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)	162	216	270	324	378
Charge/Discharge Current(Amps, Standard)	14.8				
Charge/Discharge Current(Amps, Normal)	37				
Charge/Discharge Current(Amps, Max.@15s)	40				
Battery System Discharge lower-Voltage(Vdc)	130.5	174	217.5	261	304.5
Battery System DC Rate Power (kW)	5.33	7.10	8.88	10.66	12.43
Battery System DC Max.Power(kW.@15s)	5.76	7.68	9.60	11.52	13.44
Short circuit rating(Amps)	< 4000				
Efficiency(%)	96				
Depth of Discharge(%)	90				
Dimension(W*D*H,mm)	600*380*700	600*380*870	600*380*1040	600*380*1210	600*380*1380
Communication	CANBUS/Modbus RTU				
Protection Class	IP55				
Weight (kg)	122	158	194	230	266
Operation Life(Years)	15+				
Operation Temperature(°C)	0-50°C				
Storage Temperature(°C)	-20-60°C				
Humidity	5-95%				
Product Certificate	VDE2510-50, IEC62619, UL1973, IEC62477-1, IEC62040-1, CE, UN38.3				
Warranty	10 Years				
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				

ET Series

Three Phase Hybrid Inverter (HV Battery)



Technical Data		GW5K-ET	GW8K-ET	GW10K-ET
Battery Input Data	Battery Type	Li-Ion		
	Battery Voltage Range (V)	180~600		
	Max. Charging Current (A)	25		
	Max. Discharging Current (A)	25		
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data	Max. DC Input Power (W)	6500	9600	13000
	Max. DC Input Voltage (V)*	1000		
	MPPT Range (V)	200~850		
	Start-up Voltage (V)	180		
	Nominal DC Input Voltage (V)	620		
	Max. Input Current (A)	12.5/12.5		
	Max. Short Current (A)	15.2/15.2		
	No. of MPP Trackers	2		
	No. of Strings per MPP Tracker	1/1		
AC Output Data (On-grid)	Nominal Apparent Power Output to Utility Grid (VA)	5000	8000	10000
	Max. Apparent Power Output to Utility Grid (VA)**	5500	8800	11000
	Max. Apparent Power from Utility Grid (VA)	10000	15000	15000
	Nominal Output Voltage (V)	400/380, 3L/N/PE		
	Nominal Output Frequency (Hz)	50/60		
	Max. AC Current Output to Utility Grid (A)	8.5	13.5	16.5
	Max. AC Current from Utility Grid (A)	15.2	22.7	22.7
	Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
	Output THDi (@Nominal Output)	<3%		
AC Output Data (Back-up)	Max. Output Apparent Power (VA)	5000	8000	10000
	Peak Output Apparent Power (VA)***	10000, 60sec	16000, 60sec	16500, 60sec
	Max. Output Current (A)	8.5	13.5	16.5
	Nominal Output Voltage (V)	400/380		
	Nominal Output Frequency (Hz)	50/60		
	Output THDv (@Linear Load)	<3%		
Efficiency	Max. Efficiency	98.0%	98.2%	98.2%
	Max. Battery to Load Efficiency	97.5%		
	European Efficiency	97.2%	97.5%	97.5%
Protection	Anti-Islanding Protection	Integrated		
	PV String Input Reverse Polarity Protection	Integrated		
	Insulation Resistor Detection	Integrated		
	Residual Current Monitoring Unit	Integrated		
	Output Over Current Protection	Integrated		
	Output Short Protection	Integrated		
	Battery Input Reverse Polarity Protection	Integrated		
	Output Over Voltage Protection	Integrated		
General Data	Operating Temperature Range (°C)	-35~60		
	Relative Humidity	0~95%		
	Operating Altitude (m)	≤4000		
	Cooling	Nature Convection		
	Noise (dB)	<30		
	User Interface	LED & APP		
	Communication with BMS	CAN		
	Communication with Meter	RS485		
	Communication with EMS	RS485 (Insulated)		
	Communication with Portal	Wi-Fi		
	Weight (kg)	24		
	Size (Width*Height*Depth mm)	516*415*180		
	Mounting	Wall Bracket		
	Protection Degree	IP65		
	Standby Self-Consumption (W)****	<15		
Topology	Transformerless			
Standards	Grid Regulation	CEI 0-21; VDE4105-AR-N; VDE0126-1-1; EN50438; G98; G99; G100		
	Safety Regulation	IEC62109-1&-2		
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29		

*: Maximum operating voltage is 950V.

***: According to local grid regulation.

***: Can be reached only if PV and battery power are enough.

****: No back-up output.