



Next Level Residential Energy Solution Force H3X

Hybrid Solution



**On-Demand
Versatility**



**One-Stop Solution &
Effortless Installation**



**Trustworthy Safety
Design**



**Extraordinary
Performance**



**Intelligent
Solutions**

From Heart to Your Home

On-Demand Versatility

Single Phase/ Three Phase

Wide power range

3.6 kW to **15** kW

Single group

10-35 kWh

Max. 6 groups

210 kWh

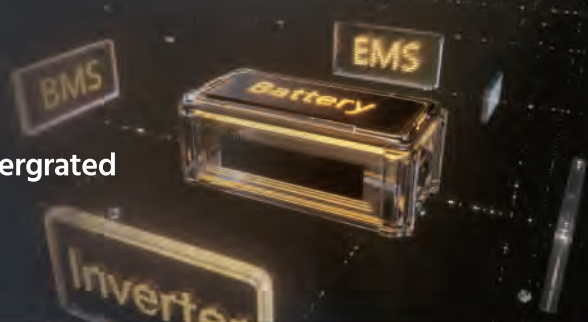
Suitable for both residential and small-scale C&I



One-Stop Solution & Effortless Installation

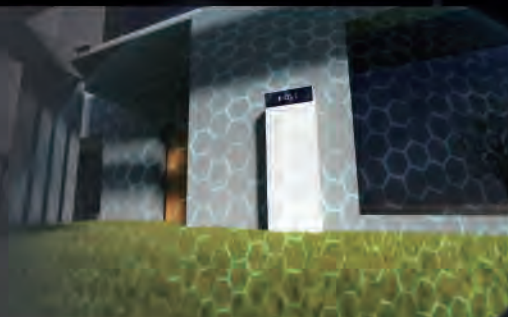
BMS+Inverter+EMS Highly integrated

15 min Installation & commissioning
Automatic paralleling, easy set-up



Trustworthy Safety Design

- ◆ Vertical integrated manufacturing
- ◆ Reliable product safety design
- ◆ Ai-driven smart protection
- ◆ Various safety certifications, unit level **UL9540A**



Extraordinary Performance

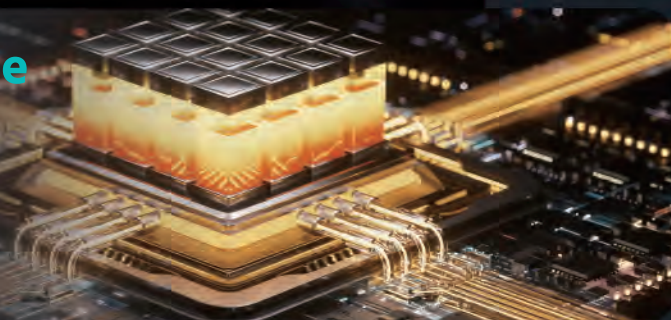
1C **97%** **8000+**

Rate

Efficiency

Life cycles

100% three phase load unbalance Supported



Intelligent Solutions

- ◆ **Dynamic control:** Optimized energy usage strategy
- ◆ Fault diagnosis system
- ◆ Remote control of pv and heat pump



*Product specifications are subject to specific conditions. Please reach out to Pylontech's technical service for further details.

Force H3X Hybrid

Single Phase

HY-1P-EU

Module

FH3X3.6K-HY-1P
EU-5/10/15/20FH3X5K-HY-1P
EU-5/10/15/20FH3X6K-HY-1P
EU-5/10/15/20FH3X8K-HY-1P
EU-5/10/15/20

Main System Data

Battery Module	FH10050			
Number of Battery Modules	1/2/3/4			
Maximum PV Power (kW)	9.6	9.6	9.6	9.6
System Rated Capacity (kWh)	5.12/10.24/15.36/20.48			
Nominal Power (kW)	3.6	5	6	8
IP Rate	IP55			

Inverter Data

Maximum Power (kW)	9.6	9.6	9.6	12.8
Maximum DC Input Voltage (Vdc)	600			
Start Up Voltage (Vdc)	80			
Number of MPPT	2	2	2	3
DC Input Number of PV Strings Per MPPT	1			
(From PV) MPPT Voltage Range (Vdc)	80~550			
MPPT Full Load Voltage Range (Vdc)	190~520			
Maximum Current (A)	16			
Short Circuit Current Per MPPT (A)	25			
Surge Protection	Type II			
Nominal AC Voltage/Frequency (Vac)	230@50/60Hz			
Grid Voltage Range (Vac)	172.5~264.5			
On-Grid Grid Connection	L/N/PE			
Nominal AC Power (kW)	3.6	5	6	8
Maximum Grid Input Power (kW)	5.7	7.5	9.6	12
Rated Output Voltage (Vac)	230±1%			
ON/Off-Grid Switching Time (ms)	≤10			
Off-Grid Rated Off-Grid Power (kVA)	3.6	5	6	8
Peak Off-Grid Power (60s)/Estimate (kVA)	4.32	6	7.2	9.6
Maximum Parallel	6			
Efficiency Maximum Efficiency	(400V PV) 97%			
European Efficiency	97%			

General Data

System Battery Voltage (Vdc)	100~500			
Maximum Charge and Discharge Current (A)	40	50	50	50
System Dimensions (Width*Depth*Height, mm)	540*350*(565/735/905/1075)			
System Weight (kg)	69/108/147/186			
System Installation Method	Floor Installation (Wall-Mounted Optional for 5/10/15 Series)			
System Operating Temperature Range (°C)	-10~55			
System Working Humidity Range	0~95%			
System Salt Spray Level	C5M			
System Working Altitude (m)	≤3000			
Common Noise Level (@ 1 meter *In Nominal Condition, dB)	<29			
Cooling	Air Cooling			
Communication Portal	WIFI/WLAN/Bluetooth			
EPO	Installed			
AFCI	2.0@IEC 63027			

Battery Data

Battery Module	FH10050			
Battery Module Capacity (kWh)	5.12			
Depth of Discharge	95%			
Charge/Standard (A)	10			
Discharge Normal (A)	50			
MAX (A)	55@15min			
Cycle Life (@25°C)	>8000			
Muti-Group	Max.6 Systems in Parallel			

Standard Compliance

UN38.3/IEC61000-6/VDE-AR-E-2510-50 2017-05/IEC62619: 2022/IEC60730-1/ISO13849/IEC62477-1: 2022/EN 62477-1: 2012+A12: 2021/IEC62109-1: 2010/IEC62109-2: 2011

VDE-AR-N-4105: 2018/DIN VDE V 0124-100: 2020/EN50549-10/EN50549-1/PPDS Annex: 2022+EN50549-10/C10/11+EN50549-10/EIFS+EN50549-10/CEI0-21/RD1699 RD661 RD413/UNE 217002: 2020/NTS Version 2.1: 2021/UNE 217001: 2021/AS 4777. 2/AS60947. 3/G98/G99/TOR

Force H3X Hybrid

Three Phase

HY-3P-EU

Module

FH3X8K-HY-3P
EU-10/15/20/25/30/35FH3X10K-HY-3P
EU-10/15/20/25/30/35FH3X12K-HY-3P
EU-10/15/20/25/30/35FH3X15K-HY-3P
EU-10/15/20/25/30/35

Main System Data

Battery Module	FH10050		
Number of Battery Modules	2/3/4/5/6/7		
Maximum PV Power (kW)	24		
System Rated Capacity (kWh)	10.24/15.36/20.48/25.6/30.72/35.84		
Nominal Power (kW)	8	10	12
IP Rate	IP55		

Inverter Data

Maximum Power (kW)	24		
Maximum DC Input Voltage (Vdc)	1000		
Start Up Voltage (Vdc)	200		
Number of MPPT	3		
DC Input Number of PV Strings Per MPPT	1		
(From PV) MPPT Voltage Range (Vdc)	200~850		
MPPT Full Load Voltage Range (Vdc)	280~850		
Maximum Current (A)	20		
Short Circuit Current Per MPPT (A)	30		
Surge Protection	Type II		
Nominal AC Voltage/Frequency (Vac)	400@50/60Hz		
Grid Voltage Range (Vac)	320~480		
On-Grid Grid Connection	3W/N/PE		
Nominal AC Power (kW)	8	10	12
Maximum Grid Input Power (kW)	12	15	18
Rated Output Voltage (Vac)	400		
ON/Off-Grid Switching Time (ms)	≤10		
Off-Grid Rated Off-Grid Power (kVA)	8	10	12
Peak Off-Grid Power (60s)/Estimate (kVA)	9.6	12	14.4
Maximum Parallel	6		
Efficiency Maximum Efficiency	(600V PV) 97%		
European Efficiency	97%		

General Data

System Battery Voltage (Vdc)	120~850		
Maximum Charge and Discharge Current (A)	40	50	50
System Dimensions (Width*Depth*Height, mm)	540*350*(780/950/1120/1290/1460/1630)		
System Weight (kg)	118/157/196/235/274/313		
System Installation Method	Floor Installation (Wall-Mounted Optional for 5/10/15 Series)		
System Operating Temperature Range (°C)	-10~55		
System Working Humidity Range	0~95%		
System Salt Spray Level	C5M		
System Working Altitude (m)	≤3000		
Common Noise Level (@ 1 meter *In Nominal Condition, dB)	<29		
Cooling	Air Cooling		
Communication Portal	WIFI/WLAN/Bluetooth		
EPO	Installed		
AFCI	2.0@IEC 63027		

Battery Data

Battery Module	FH10050		
Battery Module Capacity (kWh)	5.12		
Depth of Discharge	95%		
Charge/ Standard (A)	10		
Discharge Normal (A)	50		
MAX (A)	55@15min		
Cycle Life (@25°C)	>8000		
Muti-Group	Max.6 Systems in Parallel		

Standard Compliance

UN38.3/IEC61000-6/VDE-AR-E-2510-50 2017-05/IEC62619: 2022/IEC60730-1/ISO13849/IEC62477-1: 2022/EN 62477-1: 2012+A12: 2021/IEC62109-1: 2010/IEC62109-2: 2011

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