

## Residential BESS

### *Force series*



#### Safety

Multi-protection from self developed BMS



#### Optimal Electricity Cost

Long cycle life and superior performance



#### Compact Size & East Installation

Module design help for quick installation



#### Easy to Scale Up

Be workable to be parallel based on 48V



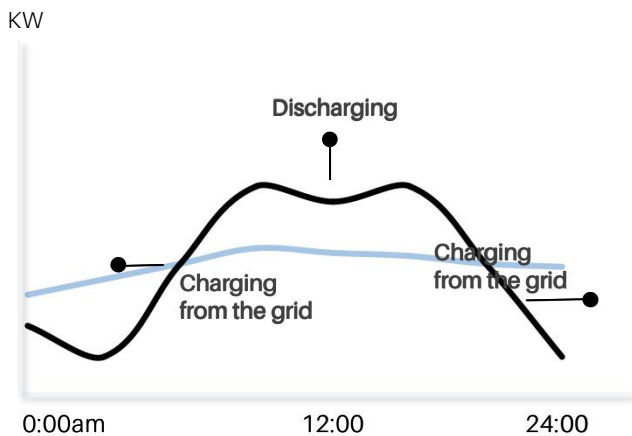
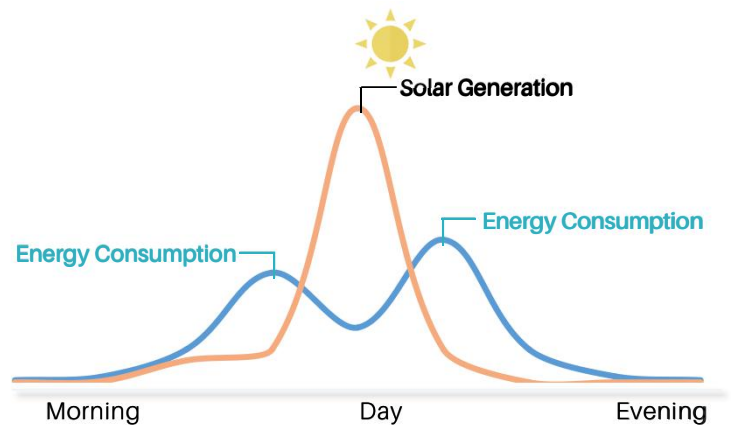
#### Compatibility

Compatible with Tier 1 inverter brands

# How to save bill from Residential ESS?

## 1. Self-Consumption Optimization

High energy demand in the morning and evening but solar generation is most sufficient during the Mid-Day. Battery Storage system balance the feeding and demands. Realize your grid independence.



## 2. Benefits from Peak Shaving

### House: Load Shifting

Store the power during low-peak and use the energy at peak-time. Save the money which happens arising from peak rate.

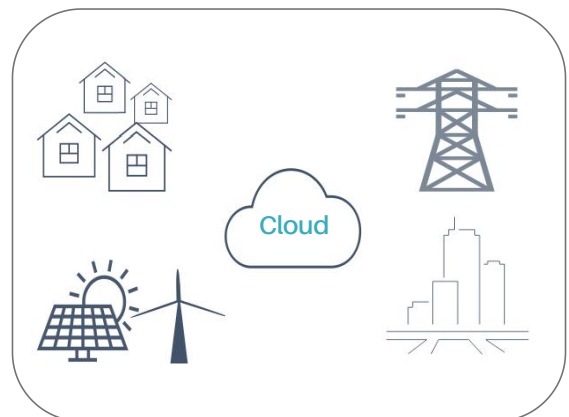
### Transmission&Distribution: peak Shaving

Save on the electricity bills by reducing peak demand

## 3. VPP Revenue

VPP creates a network of renewable energy sources and battery storage systems, connected through a cloud-based technology that manages the stability of clean electricity to maximize your revenue.

Enabling a cost reduction, as well as boosting the system's efficiency



## SPECIFICATION (Force-L1)



Module

2

3

4

5

6

7

### Basic Parameters

Battery System Capacity(kWh)	7.1	10.65	14.21	17.76	21.31	24.86
Voltage Range(Vdc)	44.5~54					
Dimension(W*D*H mm)	600*380*530	600*380*700	600*380*870	600*380*1040	600*380*1210	600*380*1380
Weight(kg)	84	119	154	189	224	259
Depth of Discharge	95%					
Charge/ (Recommend)	30	45	60	75	90	100
Discharge (Max)	75	100	100	100	100	100
Current(A) (Peak @15s)	105	105	105	105	105	105
Communication Port	RS485 , CAN					
Protection Class	IP55					
Working Temperature/ °C	0~50					
Shelf Temperature/ °C	-20~60					
Humidity	5%~95%(w/o condensing)					
Altitude	< 2000					
Design Life	15+ Years (25°C/°F)					
Cycle Life	>6000, 25°C					
Authentication level	VDE2510-50/IEC62619/IEC62477/IEC62040/CE/UN38.3					

## SPECIFICATION (Force-L2)



Module	2	3	4	
<b>Basic Parameters</b>				
Battery System Capacity(kWh)	7.1	10.65	14.21	
Voltage Range(Vdc)	44.5~54			
Dimension(W*D*H mm)	450*300*820	450*300*1120	450*300*1410	
Weight(kg)	83	119	14.21	
Depth of Discharge	95%			
Charge/ Discharge Current(A)	(Recommend)	30	45	60
	(Max)	75	100	100
	(Peak @15s)	105	105	105
Communication Port	RS485/CAN			
Protection Class	IP55			
Working Temperature/ °C	0~50			
Shelf Temperature/ °C	-20~60			
Humidity	5%~95% (w/o condensing)			
Altitude	< 2000			
Design Life	15+ Years (25°C/°F)			
Cycle Life	>6000, 25°C			
Authentication level	VDE2510-50/IEC62619/IEC62477/IEC62040/CE/UN38.3			

# SPECIFICATION (96~336 V)



Basic Parameters		Force-H1	Force-H2
Battery Module		FH48074	FH9637M
Battery Module Voltage(Vdc)		48	96
Battery Module Capacity(Ah)		74	37
Battery Module Qty. (Optional)		3~7 pcs	2~4 pcs
Battery System Capacity(kWh)		24.86	14.21
Battery System Voltage (V)		336	384
Dimension (W*D*H mm)		600*380*1380	450*296*1415
Weight(kg)		259	155
Depth of Discharge		95%	
Charge/ Discharge Current(A)	(Recommend )	37	18.5
	(Max.)	40	
Communication		RS485, CAN	
Protection Class		IP55	
Working Temperature/ °C		0~50	
Shelf Temperature/ °C		-20~60	
Humidity		5%~95%(w/o condensing)	
Altitude		< 2000	
Design Life		15+ Years (25°C/°F)	
Cycle Life		>6000, 25°C	
Authentication level		UL1973/VDE2510-50 /IEC62619/IEC62477/ IEC62040/CE/UN38.3	VDE2510-50/IEC62619 /IEC62477/ IEC62040 /CE/UN38.3

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