

Power Matrix

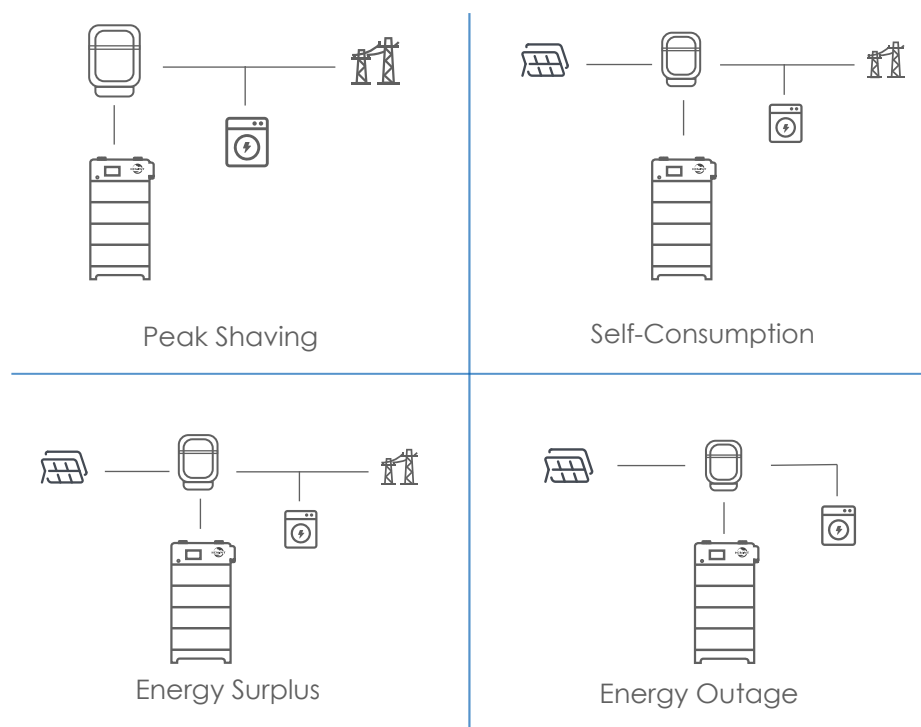
HV BESS

The Power Matrix is a battery storage system that uses modular battery modules to create a high voltage storage system. Each module is installed in a stack without the need for additional module indirect wires, which makes the system easy to install, maintain, and replace. The system can stack up to 5 modules, and each module is capable of operating at a voltage of up to 102.4 V.



- ✓ Modular Design
- ✓ Easy Installation
- ✓ Extreme Safety
- ✓ Data Visualization
- ✓ Versatile Application
- ✓ High Voltage Capability
- ✓ High Performance
- ✓ Cloud Service

System Layout



- Residential Grid-tie Solar with Backup Power
- Self-Consumption
- Off-Grid Power Supply
- Energy Emergency and Outage



System Characteristics

BESS Compliances	TUV (IEC62619) / UN38.3 / MSDS/ IEC62619
Installation Method	Stack Mounting
Installation Scene	Indoor or Outdoor
Ingress Protection	IP55
Warranty	5 Years + 5 Years

BESS Specifications

Battery Module	1P32S			
Cell Capacity	50Ah			
Module Amount	2	3	4	5
Nominal Energy (kWh)	10.24	15.36	20.48	25.6k
Nominal Voltage (V)	204.8	307.2	409.6	512
Nominal Power(kW)	9.83	14.57	19.66	24.58
Operating Voltage Range (V)	172.8-233.6	259.2-350.4	345.6-467.2	432-584
Max. Continuous Current (A)	≤ 48			
Max. Current (A)	≤100 @10S			

General Parameters

Scalability	Maximum 15 Systems in Parallel			
Dimension (H*W*D mm)	895*678*268	1147*678*268	1400*678*268	1635*678*268
Net Weight (kg)	152	203	254	305
Operating Temperature	-20°C ~ 50°C/-4°F ~ 122°F			
Operating Humidity	Up to 100% non-condensing			
Altitude	3000m (9843ft)			
Life Cycle	6000 times			
Communication Method	CAN/Wi-Fi			