



OUR VALUE

BETTENERGY & WHALEFLO SOLAR



Vision

Powering future with better energy



Mission

Focusing on green energy applications
Providing more convenient, efficient, intelligent
energy solutions



Value

Customer-oriented: (Listen to the needs of customers, products market oriented)

Innovation: (Keep innovation as the core element to realize technological empowerment)

Results-oriented: (Pursue high quality of products & effectiveness of service)

Integrity: (Maintain integrity and stay beneficial to customers, employees, partners)

APPLICATIONS

BETTENERGY&WHALEFLO SOLAR



PV Storage & EV Charging



Solar & Wind Plant



Smart Home Energy Storage System



Commercial & Industrial ESS



Agriculture & Farming Industry



Data Backup Power Storage

Inverter that supports communication

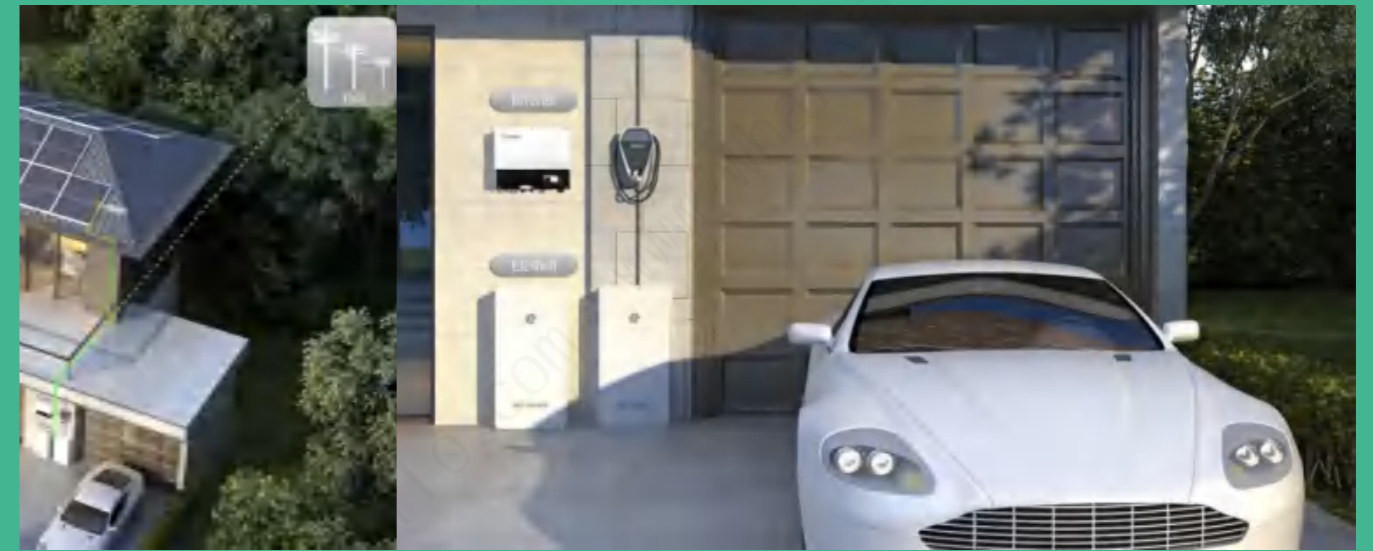
Low Voltage

High Voltage

AND OTHERS



START LOW-CARBON LIFE WITH BETTENERGY & WHALEFLO SOLAR



Smart

Intelligently select and use energy from grid / solar / battery storage



Efficient

Real-time tracking of power generation/ consumption to optimize energy utilization

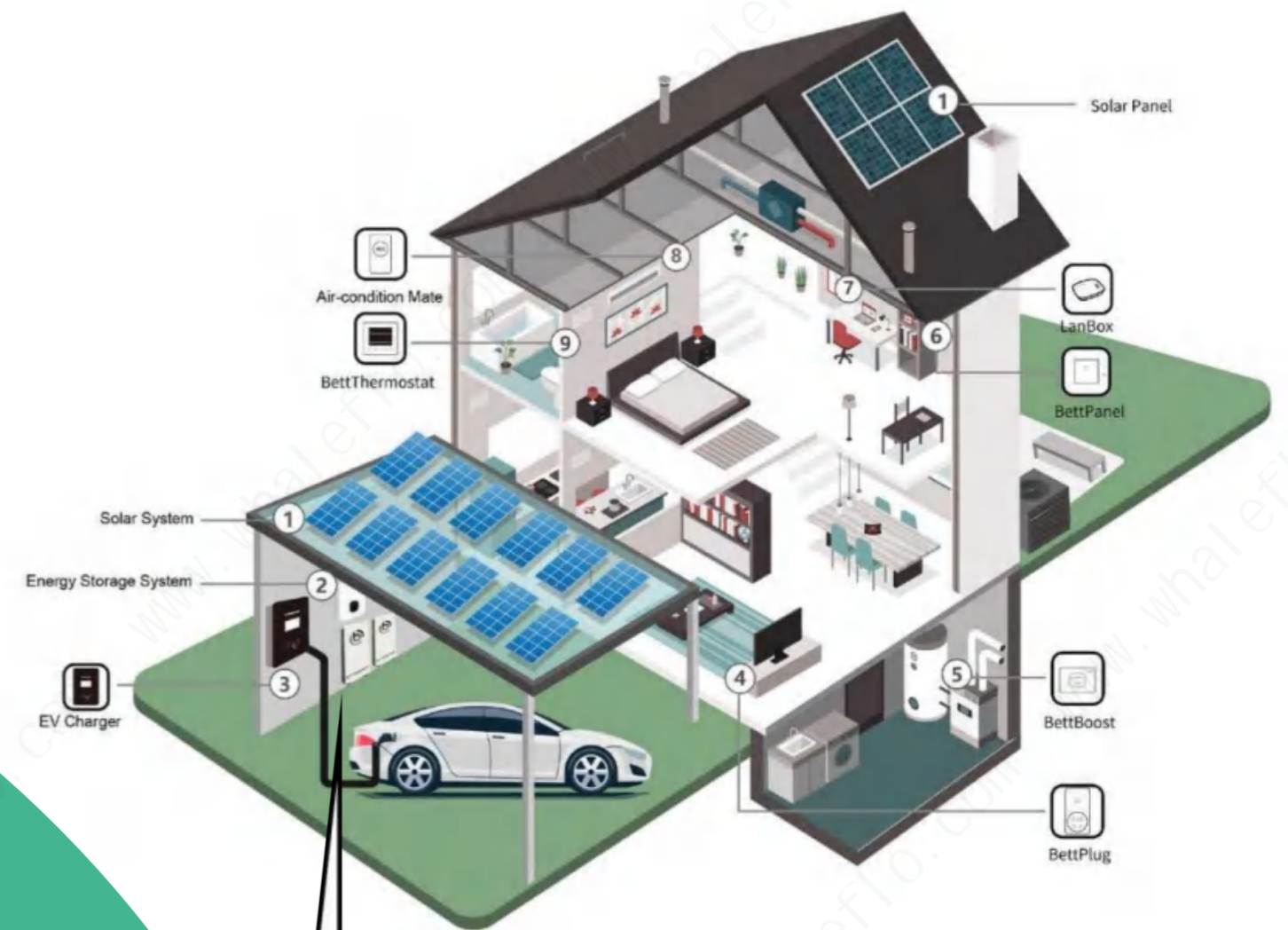
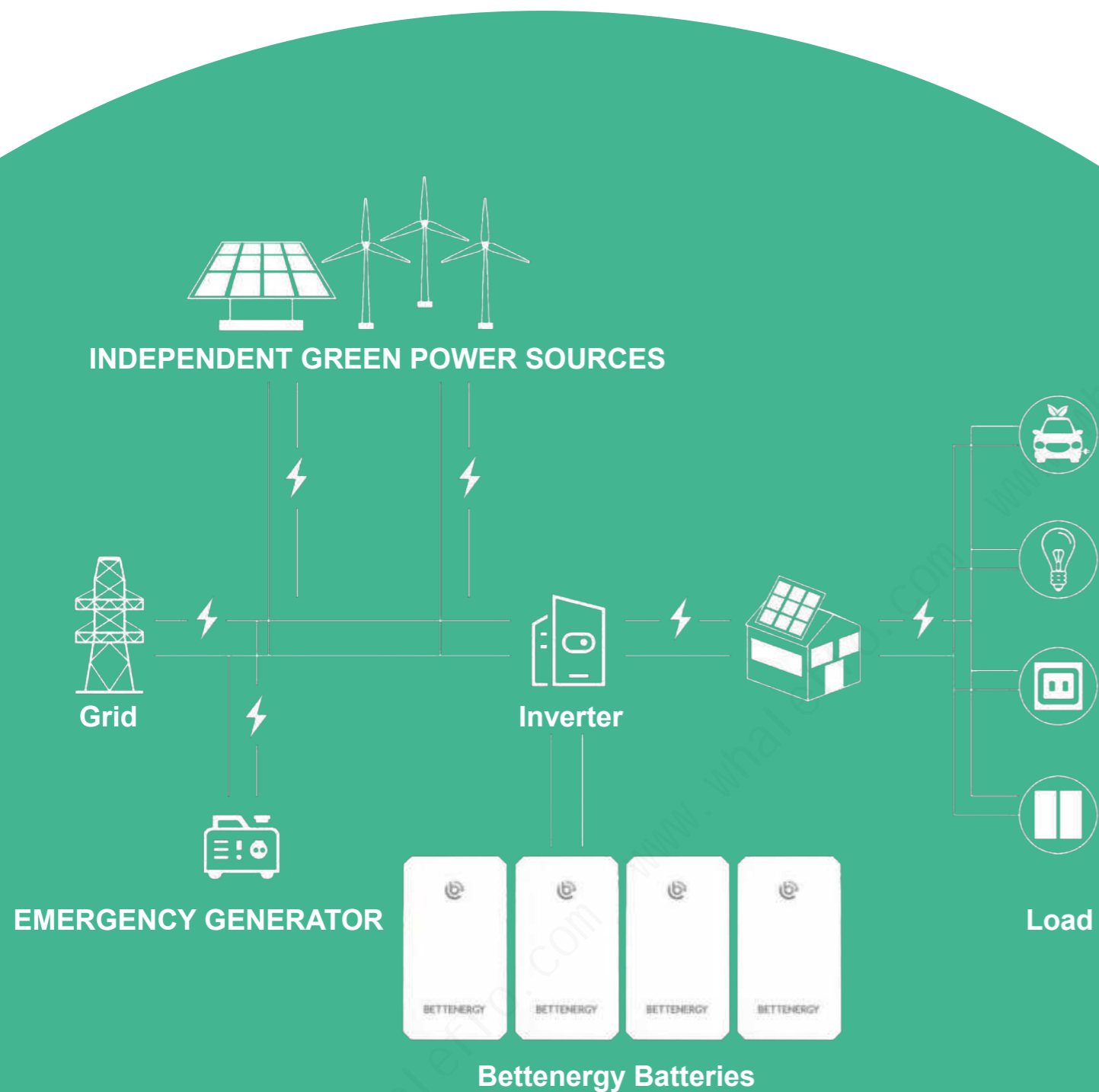


Reliable

Multiple protections by BMS to ensure system safe and stable



HOME HYBRID ENERGY STORAGE SYSTEM





CELL INFORMATION



86Ah for Powerbox 4.4k	
Capacity(Ah)	86
Charge-Discharge Rate(C)	0.5
Cycle Life(25°C,0.5C/ 0.5C,@70%Ret)	6000
Size(L*W*H)(mm)	49.9*173.9*13



120Ah for Powerbox 6.1k and Eleshell 6.1k	
Capacity(Ah)	120
Charge-Discharge Rate(C)	1
Cycle Life(25°C,0.5C/ 0.5C,@70%Ret)	6000
Size(L*W*H)(mm)	47.7*173.9*16



200Ah Eleshell 10.4k	
Capacity(Ah)	200
Charge-Discharge Rate(C)	1
Cycle Life(25°C,0.5C/ 0.5C,@70%Ret)	6000
Size(L*W*H)(mm)	55*173.9*2073



280Ah for Eleshell 14.3k	
Capacity(Ah)	280
Charge-Discharge Rate(C)	1
Cycle Life(25°C,0.5C/ 0.5C,@70%Ret)	8000
Size(L*W*H)(mm)	207*175*723



50Ah Elebox HV Series	
Capacity(Ah)	50
Charge-Discharge Rate(C)	1
Cycle Life(25°C,0.5C/ 0.5C,@70%Ret)	6000
Size(L*W*H)(mm)	39.5*148*953



UN38.3



www.whaleffo.com

**Precisely discern
fault at
core-level**

**Multiple
communication
functions,
remote real-time
monitoring**

**Multiple
protections to
ensure
reliability of
battery pack
performance**

**Modular design,
Multi-protocol
stack design plug
and play**

SEEKENER BMS

APP

Real-time monitoring of the battery system through Bluetooth
or signal, battery system operation





PRODUCT

»»» ELESHELL-LV SERIES

»»» ELEBOX-HV SERIES

»»» POWERBOX SERIES



ELESHELL-LV

BATTERY STORAGE



Datasheet	ELESHELL-6.1K	ELESHELL-10.2K	ELESHELL-14.3K
Battery Demo			
Dimensions (H x W x D) (mm / ")	867.5 * 422 * 118mm 34.154 * 16.6 * 4.646"	871.1 * 509 * 133mm 34.3 * 20.04 * 5.236"	750 * 412 * 235mm 29.5 * 16.2 * 9.25"
Weight (Kgs)	76	102.3	120
IP Protection	IP65	IP65	IP65
Operating Temperature	0 to 55°C / 0 to 131°F	0 to 55°C / 0 to 131°F	0 to 55°C / 0 to 131°F
Storage Temperature	-40 to 60°C / -104 to 140°F	-40 to 60°C / -104 to 140°F	-40 to 60°C / -104 to 140°F
Cycle Life (80% DoD @25°C)	≥6000	≥6000	≥6000
Operating Life (Years)	10	10	10
Communication Port	RS232 / RS485 / CAN	RS232 / RS485 / CAN	RS232 / RS485 / CAN
Communication Mode	WIFI/BLUETOOTH	WIFI/BLUETOOTH	WIFI/BLUETOOTH
Operating Altitude (m)	<3000	<3000	<3000
Humidity Conditions (%)	5% to 95%	5% to 95%	5% to 95%
Warranty (Years)	5/10 Years	5/10 Years	5/10 Years
Installation	Ground Mounted / Wall-Hanging	Ground Mounted / Wall-Hanging	Ground Mounted
Specification			
Nominal Energy Capacity (Wh)	6100	10200	14300
Nominal Voltage (V)	51.2	51.2	51.2
Operating Voltage Range	48 - 57	48 - 57	48 - 57
Max Charge Current (A)	100	100	100
Max Discharge Current (A)	100	100	100
Continuous Charging Current (A)	60	100	100
Continuous Discharging Current (A)	60	100	100
Depth Of Discharge (%)	80	80	80
Battery Cell Material	Lithium (LiFePO4)	Lithium (LiFePO4)	Lithium (LiFePO4)
Certification	UN38.3 CE-EMC IEC62619 MSDS ROHS		

ELEBOX-HV

BATTERY SYSTEM



Datasheet	ELEBOX-HV 5.1	ELEBOX- HV 7.7	ELEBOX HV 10.2	ELEBOX HV 12.8	ELEBOX- HV15.4	ELEBOX-HV 17.9	ELEBOX- HV-20.5	ELEBOX-HV 23.1	ELEBOX- HV 25.6
System Demo									
Battery Module	ELEBOX-HV—2.56 (2.56kWh, 51.2V, 36.3kg,593/355/146.5)								
Number of Modules	2	3	4	5	6	7	8	9	10
Energy Capability	5.12kWh	7.68kWh	10.24kWh	12.8kWh	15.36kWh	17.92kWh	20.48kWh	23.04kWh	25.6kWh
Nominal Voltage	102.4V	153.6V	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V
Operation Voltage Range	94.4-113.6V	141.6-170.4V	188.8-227.2V	236-284V	283.2-340.8V	330.4-397.6V	377.6-454.4V	424.8-511.2V	472-568V
Dimension mm (H/W/D)	424/593/355	570.5/593/355 5	717/593/355	863.5/593/355 5	1010/593/355	1157/593/355	1303/593/355	1450/593/355	1596/593/355
Weight	105.5kgs	141.5kgs	177.5kgs	213.5kgs	249.5kgs	285.5kgs	321.5kgs	357.5kgs	393.5kgs
Battery Type	Cobalt free Lithium Iron Phosphate (LFP)								
Standard Charge/Discharge Current	25A@0.5C								
Max Charge/Discharge Current	50A@1C								
IP Protection	IP 65								
Installation	Wall-mounted or Floor Installation								
Operation Temperature	0 °C to 45°C								
Feature									
DOD	80%								
Cycle Life	≥6000								
Warranty	5/10 Years								
Communication Port	CAN/RS485								
Communication Mode	WIFI/BLUETOOTH								
Certification	CE, IEC62619(Cell&Pack),MSDS,ROHS,UN38.3								

LDHEB

4400/6100Wh



Datasheet	LDHEB-4400	LDHEB-6100
Module Demo		
Dimensions (H x W x D) (mm / ")	540 * 393 * 161mm 21.25 * 15.5 * 6.34"	540*393 * 198mm 21.25 * 15.5 * 7.80"
Weight (Kgs)	48	60.2
Degree Of Protection	IP20	IP20
Operating Temperature	0 to 45°C / 0 to113°F	0 to 45°C / 0 to113°F
Storage Temperature	-20 to 45°C / -68 to 113°F	-20 to 45°C / -68 to 113°F
Cycle Life (80% DoD @ 25°C)	≥5000	≥5000
Operating Life (Years)	10	10
Communication Port	RS232 / RS485 / CAN	RS232 / RS485 / CAN
Communication Mode	WIFI/BLUETOOTH	WIFI/BLUETOOTH
Operating Altitude (m)	<3000	<3000
Humidity Conditions (%)	5% to 95%	5% to 95%
Warranty (Years)	5 Years	5 Years
Installation Type	Ground Mounted / Wall-Hanging	Ground Mounted / Wall-Hanging
Specification		
Nominal Storage Capacity (Wh)	4400	6100
Voltage (V)	51.2	51.2
Operating Voltage Range (V)	40 - 58.4	40 - 58.4
Continuous Charging Current (A)	80	80
Continuous Discharging Current (A)	80	80
Depth Of Discharge (%)	80	80
Battery Cell Material	Lithium (LiFePO4)	Lithium (LiFePO4)
Certification	UN38.3 CE-EMC CE-LVD MSD ROHS	

POWERBOX

4400/6100Wh



Datasheet	POWERBOX-4400	POWERBOX-6100
Module Demo		
Dimensions (H x W x D) (mm / ")	146.2 * 434.5 * 450.5mm 5.756 * 17.1 * 17.736"	184.2 * 434.5 * 450.5mm 7.252 * 17.1 * 17.736"
Weight (Kgs)	46.2	58.8
Degree Of Protection	IP20	IP20
Operating Temperature	0 to 45°C / 0 to 113°F	0 to 45°C / 0 to 113°F
Storage Temperature	-20 to 45°C / -68 to 113°F	-20 to 45°C / -68 to 113°F
Cycle Life (80% DoD @ 25°C)	≥5000	≥5000
Operating Life (Years)	10	10
Communication Port	RS232 / RS485 / CAN	RS232 / RS485 / CAN
Communication Mode	WIFI/BLUETOOTH	WIFI/BLUETOOTH
Operating Altitude (m)	<3000	<3000
Humidity Conditions (%)	5% to 95%	5% to 95%
Warranty (Years)	5 Years	5 Years
Installation Type	Ground Mounted	Ground Mounted
Specification		
Nominal Storage Capacity (Wh)	4400	6100
Voltage (V)	51.2	51.2
Operating Voltage Range (V)	49-56.8	49-56.8
Continuous Charging Current (A)	43	60
Continuous Discharging Current (A)	60	80
Depth Of Discharge (%)	80	80
Battery Cell Material	Lithium (LiFePO4)	Lithium (LiFePO4)
Certification	UN38.3 CE-EMC CE-LVD MSDS ROHS	



ELEMATRIX-SERIES

Apply first class storage batteries and PCS, the products are used in various scenarios such as industrial and commercial energy storage, compatible with different system architectures such as grid-connected and off-grid, and match the mainstream EMS of the industry to help industrial and commercial users realize efficiency management and power cost optimization, and improve the utilization rate of power distribution assets

SEEKENER PV-ES- CHARGING

Applicable Scenarios

Photovoltaic power is not able to be consumed completely
 Demonstration project of multi-energy complementary micro-grid

Values

- Solve problem of electric vehicles charging in disorder causing grid fluctuations
- Saving of electricity fee and peak-valley arbitrage income
- Remote monitoring and control with micro-grid energy cloud
- Ensure maximum photovoltaic consumption and stable operation of micro-grid

1

Increase revenue

Solve the problem of abandonment of excess of wind & solar power

2

Peak load shifting

Control charging and discharging process according to the set value and improve effectiveness of energy consumption

3

Reduce the maximum load power

reduce the investment in new transformer and distribution equipment and basic electricity costs

4

Power peak load shifting and peak-valley arbitrage

capacity expansion plan, build a micro- solve the problem of transformer overload,

5

Reduce the cost of capacity expansion

replace the transformer grid, improve power supply reliability, and reduce electricity costs

6

Smooth the load curve

Smooth the load curve to reduce the impact of load fluctuation on the power

VOLVO SYHANGHAI-PV&EV CHARGING



PROJECTS

