



Smart Power Station

System Solutions



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Smart Power Station

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Product introduction

Basic configuration

System connection display

Advantage introduction

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Product introduction

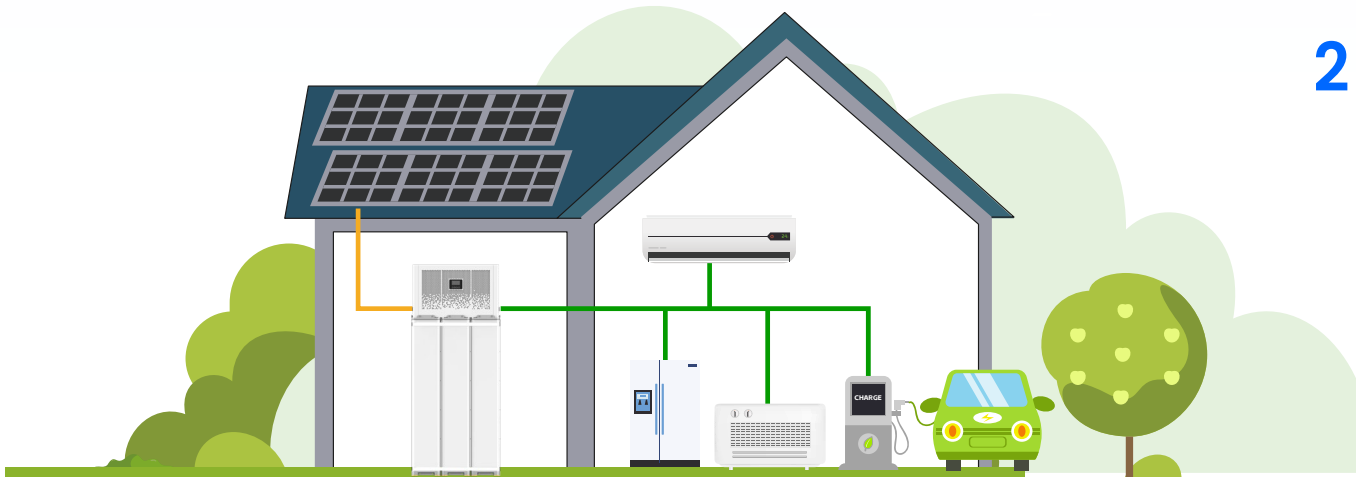
Basic configuration

System connection display

Advantage introduction

90kWh 380V36kW three phase element/unit

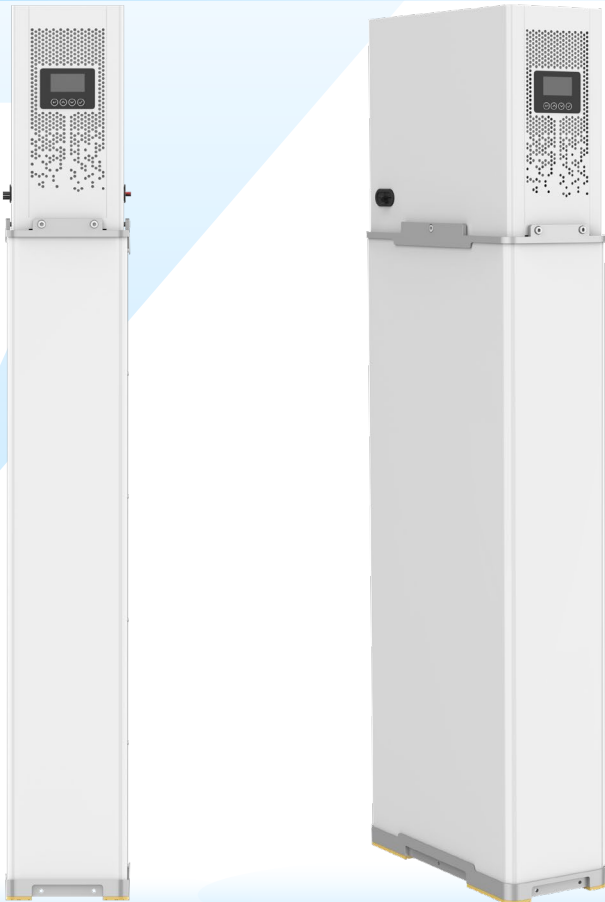
135kWh 380V54kW three phase element/unit



Single-phase

Energy Storage Systems

220V/6kW 15kWh System Solutions



Peak-valley arbitrage and save on electricity costs



Capacity management, to reduce the electricity charges for needed power.



Capacity management and reduce demand charges



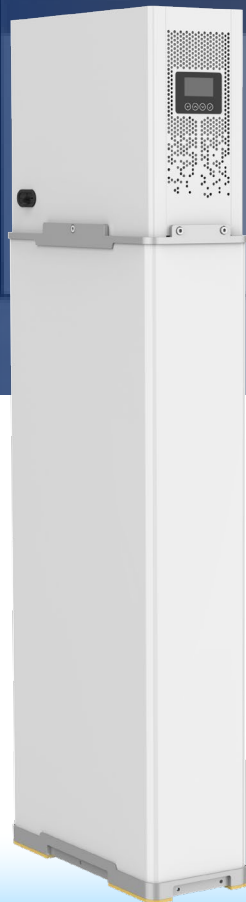
Dynamic expansion and lower the transformer costs through scalable capacity

Use self-generated power and store the excess for grid backup, Grid electricity charging.

- Higher power output and applicability to meet basic household electricity needs
- Strong power quality and stability
- Effectively avoid equipment damage or failure caused by voltage fluctuations
- Higher energy efficiency
- System reliability and security are higher

220V/6kW 15kWh

- In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.
- In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.
- In the areas with Frequent Power Outages, this can be used as an uninterruptible power supply (UPS) to prevent data loss and other issues caused by frequent power interruptions.
- It is suitable for projects such as power protection for daily basic household appliances (refrigerators, fans, air conditioners), small office environment support, emergency lighting and communication support, etc.

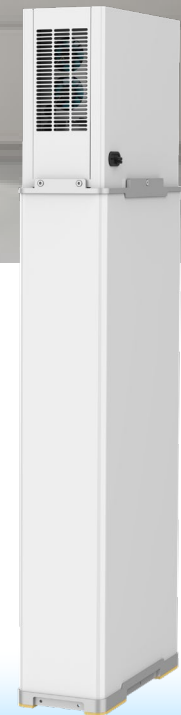


Battery Parameter

| | |
|------------------|-------|
| Nominal capacity | 300Ah |
| Nominal voltage | 48V |
| Electricity(kWh) | 15kWh |

Solar Inverter Parameter

| | |
|-----------------------------|------------------------|
| Rated power | 6kW |
| Rated input voltage (VAC) | 208/220/230/240;l+n+pe |
| Frequency (Hz) | 50/60 (auto adaptive) |
| Wave form | Pure sine wave |
| Battery rated voltage (VDC) | 48 |



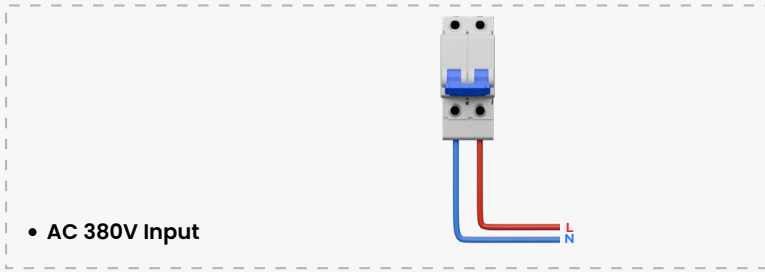
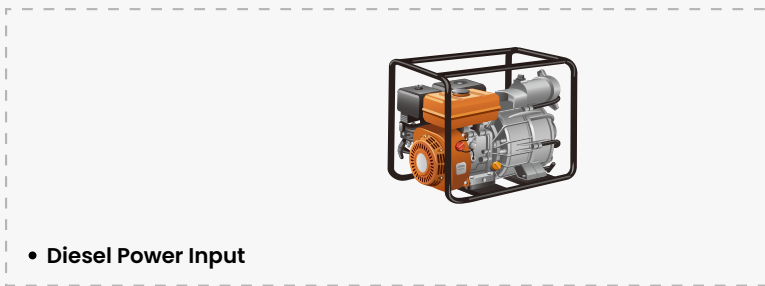
220V/6kW 15kWh

System Connection Display

Input system

Storage Inversion system

Load side



220V/6kW 15kWh

Advantage Introduction

Scalable dynamic capacity expansion of the battery

- Modular design, can be dynamically expanded by 2-9 according to needs;
- Reduce ineffective inventory while expanding the customer base without increasing product categories;
- Ensure power supply stability and reduce costs.



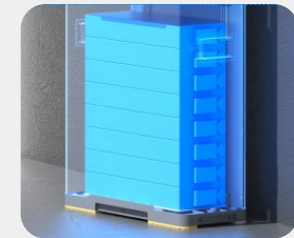
Multiple inputs, convenient operation

- System cost reduced to less than 50%, with the significantly lower costs associated with transportation, safety regulations, and installation due to the high-voltage system becoming clearly visible;
- Transportation, installation, and usage are safer. Compared to the various safety labels emphasized on individual high-voltage energy storage cabinets, low-voltage energy storage batteries pose no threat to humans, fundamentally eliminating safety concerns;
- Mature low-voltage energy storage products are not only safe but also have established comprehensive sales channels, after-sales service, and proven case studies, leading to higher customer acceptance;
- Simple connection for immediate use. All wiring is completed at the factory end, reducing the probability of errors;
- Highly flexible and stable multi-input mode.



LiFePO4 battery

- Stable discharge and long cycle life;
- Safety and environmental protection;
- Super endurance, high and low temperature resistance.





15 kWh basic reserve

- Electricity guarantee for daily basic household appliances;
- Able to provide long-term lighting in emergency situations.



 No special high-voltage safety regulations or certifications required.

 No need for personnel with high-voltage certifications for installation.

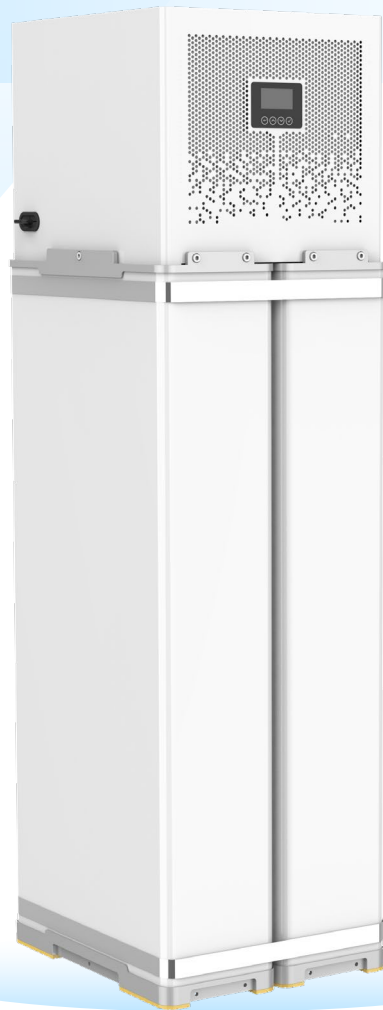
 No special transportation and installation tools needed.

Single-phase

Energy Storage Systems

220V/12kW 30kWh

System Solutions



Peak-valley arbitrage and save on electricity costs



Capacity management, to reduce the electricity charges for needed power.



Capacity management and reduce demand charges



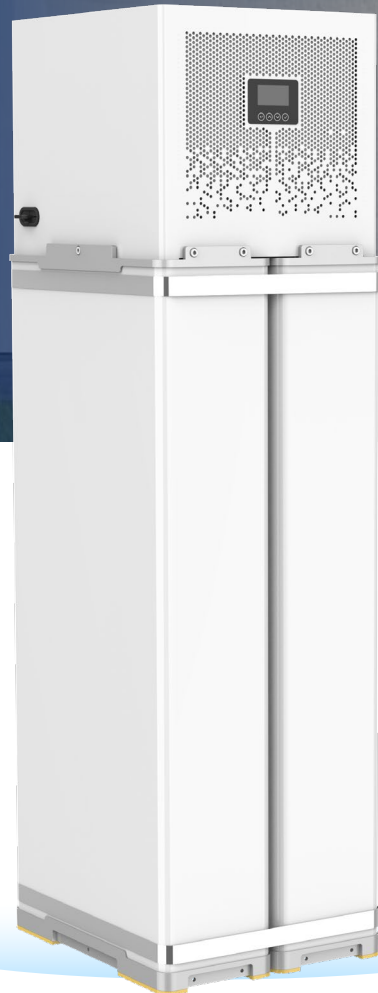
Dynamic expansion and lower the transformer costs through scalable capacity

Use self-generated power and store the excess for grid backup, Grid electricity charging.

- Higher power output and applicability to ensure the smooth operation of activities in various scenarios
- Strong power quality and stability
- Effectively avoid equipment damage or failure caused by voltage fluctuations
- Higher energy efficiency
- System reliability and security are higher

220V/12kW 30kWh

- In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.
- In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.
- In the areas with Frequent Power Outages, this can be used as an uninterruptible power supply (UPS) to prevent data loss and other issues caused by frequent power interruptions.
- It is suitable for projects such as electricity guarantee for daily basic household appliances, operation of small commercial stores, power supply for necessary medical equipment, outdoor living and emergency lighting.



Battery Parameter

| | |
|------------------|-------|
| Nominal capacity | 600Ah |
| Nominal voltage | 48V |
| Electricity(kWh) | 30kWh |

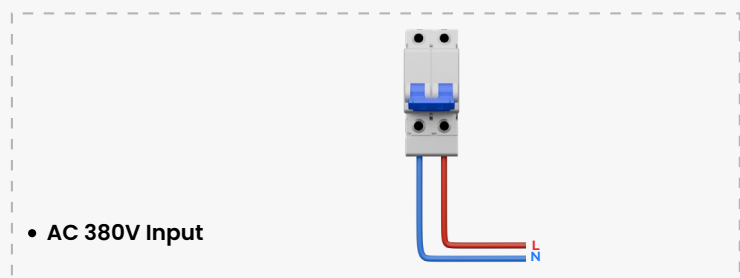
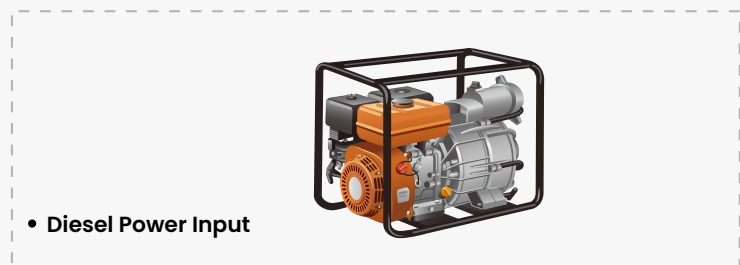
Solar Inverter Parameter

| | |
|-----------------------------|------------------------|
| Rated power | 12kW |
| Rated input voltage (VAC) | 208/220/230/240;L+N+PE |
| Frequency (Hz) | 50/60 (auto adaptive) |
| Wave form | Pure sine wave |
| Battery rated voltage (VDC) | 48 |

220V/12kW 30kWh

System Connection Display

Input system



Storage Inversion system



Load side

AC 220V Output



≤12kW load

220V/12kW 30kWh

Advantage Introduction

Scalable dynamic capacity expansion of the battery

- Modular design, can be dynamically expanded by 2-9 according to needs;
- Reduce ineffective inventory while expanding the customer base without increasing product categories;
- Ensure power supply stability and reduce costs.



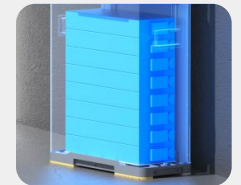
Multiple inputs, convenient operation

- System cost reduced to less than 50%, with the significantly lower costs associated with transportation, safety regulations, and installation due to the high-voltage system becoming clearly visible;
- Transportation, installation, and usage are safer. Compared to the various safety labels emphasized on individual high-voltage energy storage cabinets, low-voltage energy storage batteries pose no threat to humans, fundamentally eliminating safety concerns;
- Mature low-voltage energy storage products are not only safe but also have established comprehensive sales channels, after-sales service, and proven case studies, leading to higher customer acceptance;
- Simple connection for immediate use. All wiring is completed at the factory end, reducing the probability of errors;
- Highly flexible and stable multi-input mode.



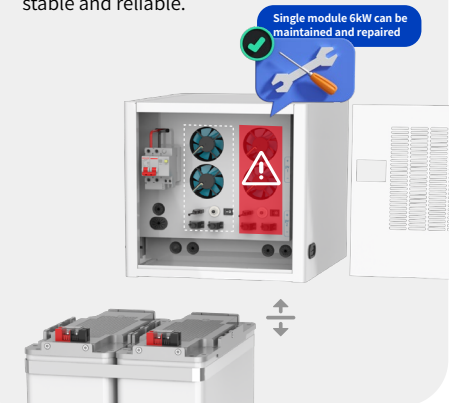
LiFePO4 battery

- Stable discharge and long cycle life;
- Safety and environmental protection;
- Super endurance, high and low temperature resistance.



Easy disassembly and high efficiency maintenance

- Separable storage and inverter structure, easy to disassemble and repair;
- Avoid moving batteries, reducing difficulty for maintenance;
- Reduce battery damage, ensure the equipment stable and reliable.



No special high-voltage safety regulations or certifications required.

No need for personnel with high-voltage certifications for installation.

No special transportation and installation tools needed.

30 kWh basic reserve

- Strong applicability in multiple scenarios;
- Stable power supply for homes, businesses, emergency and outdoor scenes.



Three-phase

Energy Storage Systems

380V/18kW 45kWh

System Solutions



Peak-valley arbitrage and save on electricity costs



Capacity management, to reduce the electricity charges for needed power.



Capacity management and reduce demand charges



Dynamic expansion and lower the transformer costs through scalable capacity

Use self-generated power and store the excess for grid backup, Grid electricity charging.

- Higher power output and applicability to meet high power demands
- Strong power quality and stability
- Effectively avoid equipment damage or failure caused by voltage fluctuations
- System reliability and security are higher
- Reduce equipment costs
- Improve energy storage and utilization efficiency and maximize the utilization of photovoltaic energy.
- It has good compatibility and can dynamically adapt to photovoltaic modules.

380V/18kW 45kWh

- In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.
- In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.
- In the areas with Frequent Power Outages, this can be used as an uninterruptible power supply (UPS) to prevent data loss and other issues caused by frequent power interruptions.
- Suitable for charging piles larger than 7kW, industrial and commercial heating heat pumps, booster pumps, circulation pumps, irrigation pumps, electric lights and other projects.



Battery Parameter

| | |
|------------------|-------|
| Nominal capacity | 900Ah |
| Nominal voltage | 48V |
| Electricity(kWh) | 45kWh |

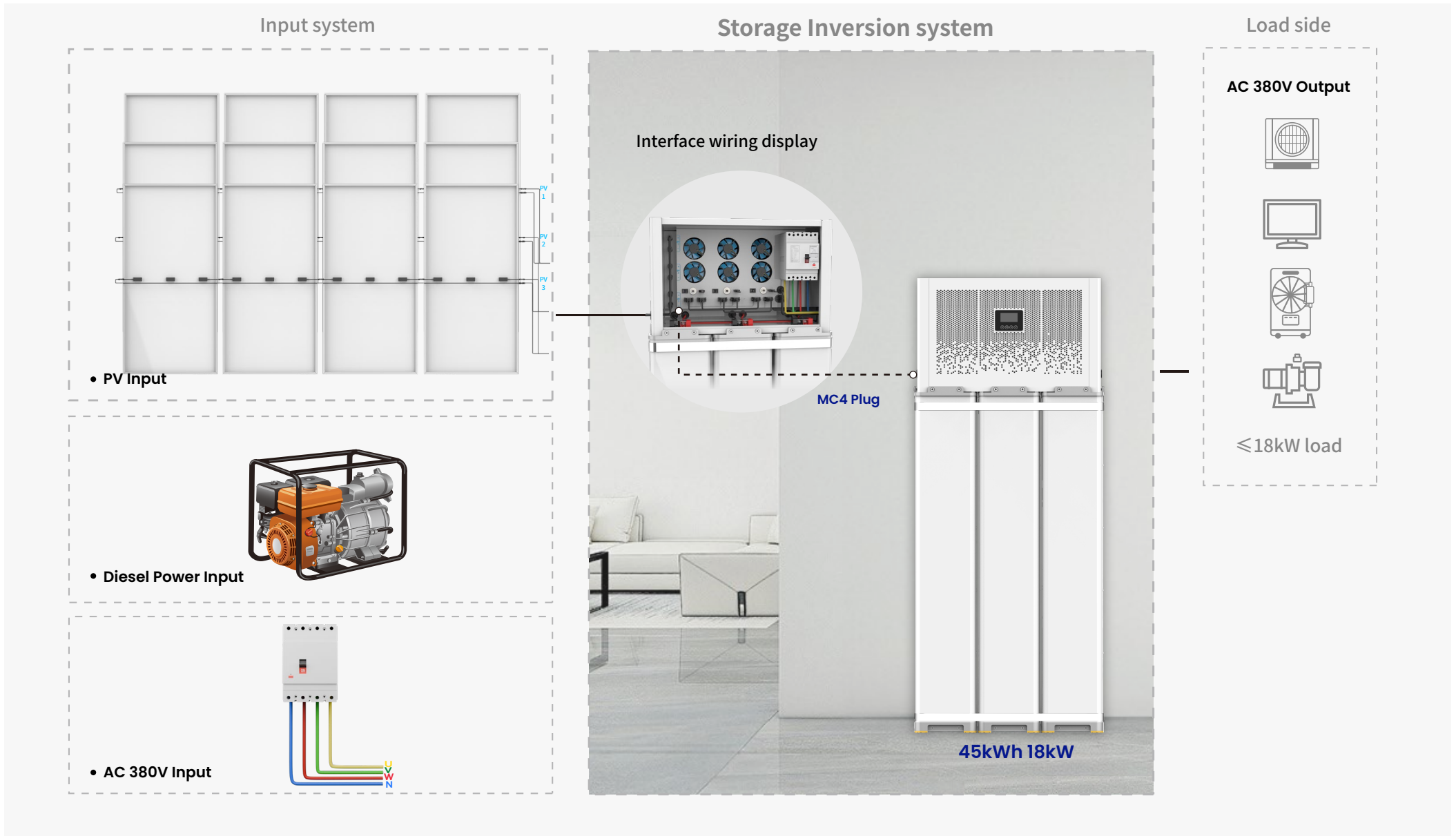
Solar Inverter Parameter

| | |
|-----------------------------|----------------------------|
| Rated power | 18kW |
| Rated input voltage (VAC) | 360/380/397/415;U+V+W+N+PE |
| Frequency (Hz) | 50/60 (auto adaptive) |
| Wave form | Pure sine wave |
| Battery rated voltage (VDC) | 48 |



380V/18kW 45kWh

System Connection Display



380V/18kW 45kWh

Advantage Introduction

Scalable dynamic capacity expansion of the battery

- Modular design, can be dynamically expanded by 2-9 according to needs;
- Reduce ineffective inventory while expanding the customer base without increasing product categories;
- Ensure power supply stability and reduce costs.



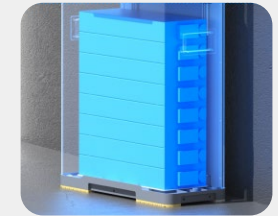
Multiple inputs, convenient operation

- System cost reduced to less than 50%, with the significantly lower costs associated with transportation, safety regulations, and installation due to the high-voltage system becoming clearly visible;
- Transportation, installation, and usage are safer. Compared to the various safety labels emphasized on individual high-voltage energy storage cabinets, low-voltage energy storage batteries pose no threat to humans, fundamentally eliminating safety concerns;
- Mature low-voltage energy storage products are not only safe but also have established comprehensive sales channels, after-sales service, and proven case studies, leading to higher customer acceptance;
- Simple connection for immediate use. All wiring is completed at the factory end, reducing the probability of errors;
- Highly flexible and stable multi-input mode.



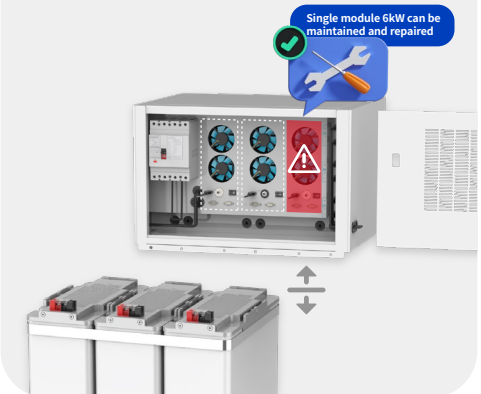
LiFePO4 battery

- Stable discharge and long cycle life;
- Safety and environmental protection;
- Super endurance, high and low temperature resistance.




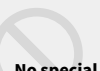
Easy disassembly and high efficiency maintenance

- Separable storage and inverter structure, easy to disassemble and repair;
- Avoid moving batteries, reducing difficulty for maintenance;
- Reduce battery damage, ensure the equipment stable and reliable.



 No special high-voltage safety regulations or certifications required.

 No need for personnel with high-voltage certifications for installation.

 No special transportation and installation tools needed.

45 kilowatt hours (kWh) abundant reserve

- Meet virtually all household electricity needs.
- Guarantees the operation of critical equipment.



Three-phase

Energy Storage Systems

380V/36kW 90kWh

System Solutions



Peak-valley arbitrage and save on electricity costs



Capacity management, to reduce the electricity charges for needed power.



Capacity management and reduce demand charges



Dynamic expansion and lower the transformer costs through scalable capacity

Use self-generated power and store the excess for grid backup, Grid electricity charging.

- Higher power output and applicability to meet high power demands
- Strong power quality and stability
- Effectively avoid equipment damage or failure caused by voltage fluctuations
- System reliability and security are higher
- Reduce equipment costs
- Improve energy storage and utilization efficiency and maximize the utilization of photovoltaic energy
- It has good compatibility and can dynamically adapt to photovoltaic modules
- Low equipment maintenance and operating costs
- Carry out peak and valley arbitrage to achieve more significant economic benefits



380V/36kW 90kWh

- In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.
- In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.
- In the areas with Frequent Power Outages, this can be used as an uninterruptible power supply (UPS) to prevent data loss and other issues caused by frequent power interruptions.
- Suitable for household and commercial appliance transportation, medium-temperature solar drying systems, electric motors, heating equipment, compressors, concrete maintenance and other projects



Battery Parameter

| | |
|------------------|--------|
| Nominal capacity | 1800Ah |
| Nominal voltage | 48V |
| Electricity(kWh) | 90kWh |

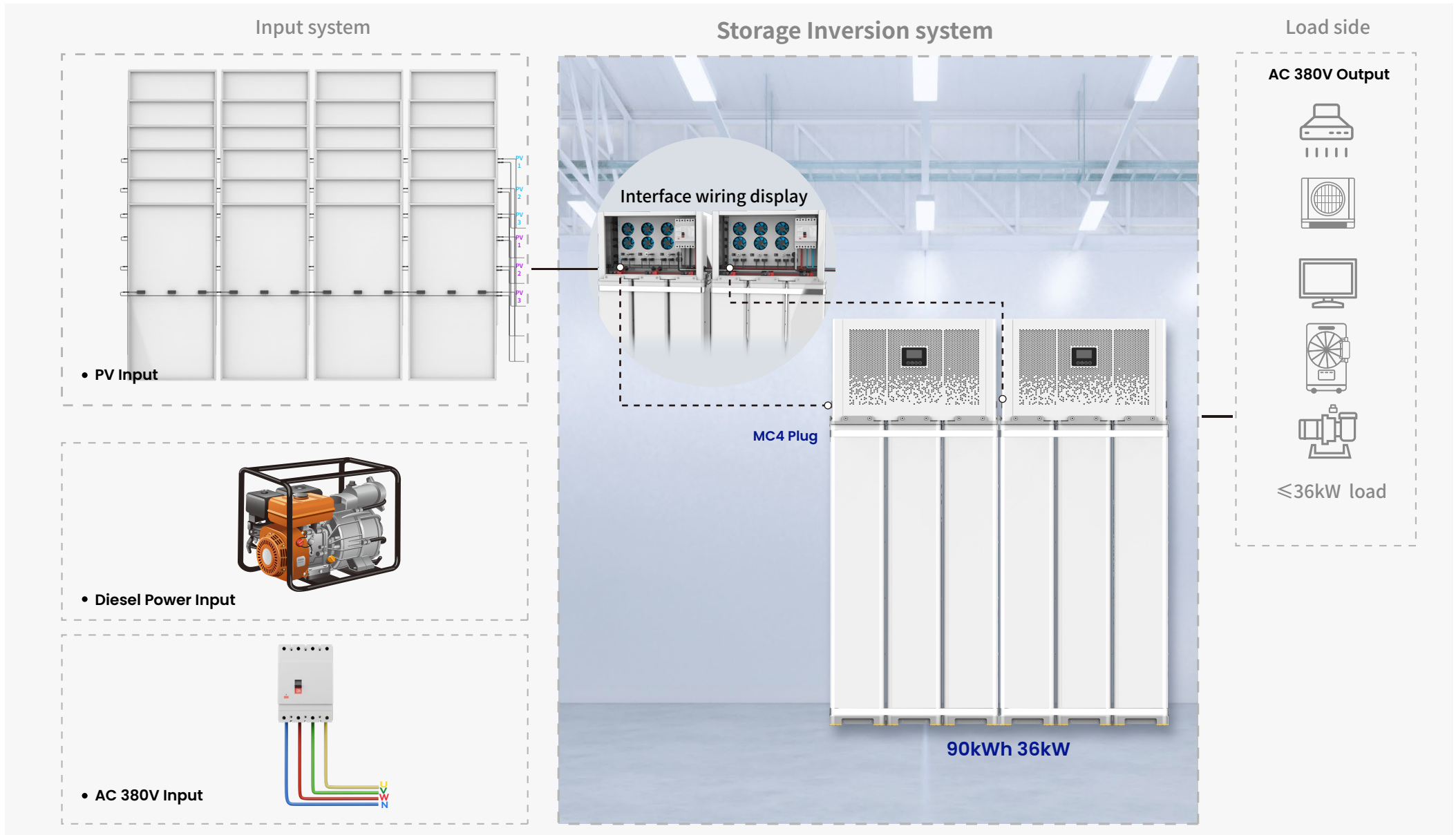
Solar Inverter Parameter

| | |
|-----------------------------|----------------------------|
| Rated power | 36kW |
| Rated input voltage (VAC) | 360/380/397/415;U+V+W+N+PE |
| Frequency (Hz) | 50/60 (auto adaptive) |
| Wave form | Pure sine wave |
| Battery rated voltage (VDC) | 48 |



380V/36kW 90kWh

System Connection Display



380V/36kW 90kWh

Advantage Introduction

Scalable dynamic capacity expansion of the battery

- Modular design, can be dynamically expanded by 2-9 according to needs;
- Reduce ineffective inventory while expanding the customer base without increasing product categories;
- Ensure power supply stability and reduce costs.



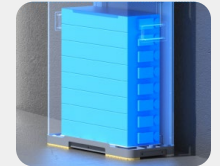
Multiple inputs, convenient operation

- System cost reduced to less than 50%, with the significantly lower costs associated with transportation, safety regulations, and installation due to the high-voltage system becoming clearly visible;
- Transportation, installation, and usage are safer. Compared to the various safety labels emphasized on individual high-voltage energy storage cabinets, low-voltage energy storage batteries pose no threat to humans, fundamentally eliminating safety concerns;
- Mature low-voltage energy storage products are not only safe but also have established comprehensive sales channels, after-sales service, and proven case studies, leading to higher customer acceptance;
- Simple connection for immediate use. All wiring is completed at the factory end, reducing the probability of errors;
- Highly flexible and stable multi-input mode.



LiFePO4 battery

- Stable discharge and long cycle life;
- Safety and environmental protection;
- Super endurance, high and low temperature resistance.



Easy disassembly and high efficiency maintenance

- Separable storage and inverter structure, easy to disassemble and repair;
- Avoid moving batteries, reducing difficulty for maintenance;
- Reduce battery damage, ensure the equipment stable and reliable.



No special high-voltage safety regulations or certifications required.

No need for personnel with high-voltage certifications for installation.

No special transportation and installation tools needed.

90 kilowatt hours (kWh) excellent reserve

- Meet the needs of large-scale event sites and industrial production.
- Ensure power supply for public service facilities.



Three-phase

Energy Storage Systems

380V/54kW 135kWh

System Solutions



Peak-valley arbitrage and save on electricity costs



Capacity management, to reduce the electricity charges for needed power.



Capacity management and reduce demand charges



Dynamic expansion and lower the transformer costs through scalable capacity

Use self-generated power and store the excess for grid backup, Grid electricity charging.

- Higher power output and applicability to meet high power demands
- Strong power quality and stability
- Effectively avoid equipment damage or failure caused by voltage fluctuations
- System reliability and security are higher
- Reduce equipment costs
- Improve energy storage and utilization efficiency and maximize the utilization of photovoltaic energy.
- It has good compatibility and can dynamically adapt to photovoltaic modules.
- Low equipment maintenance and operating costs
- Carry out peak and valley arbitrage to achieve more significant economic benefits

380V/54kW 135kWh

- In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.
- In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.
- In the areas with Frequent Power Outages, this can be used as an uninterruptible power supply (UPS) to prevent data loss and other issues caused by frequent power interruptions.
- Suitable for industrial water disposal equipment, large flow and high lift submersible pumps, farmland irrigation, mining machinery, sewage treatment, electric hot water boilers, air source heat pump systems and other projects



Battery Parameter

| | |
|------------------|--------|
| Nominal capacity | 2700Ah |
| Nominal voltage | 48V |
| Electricity(kWh) | 135kWh |

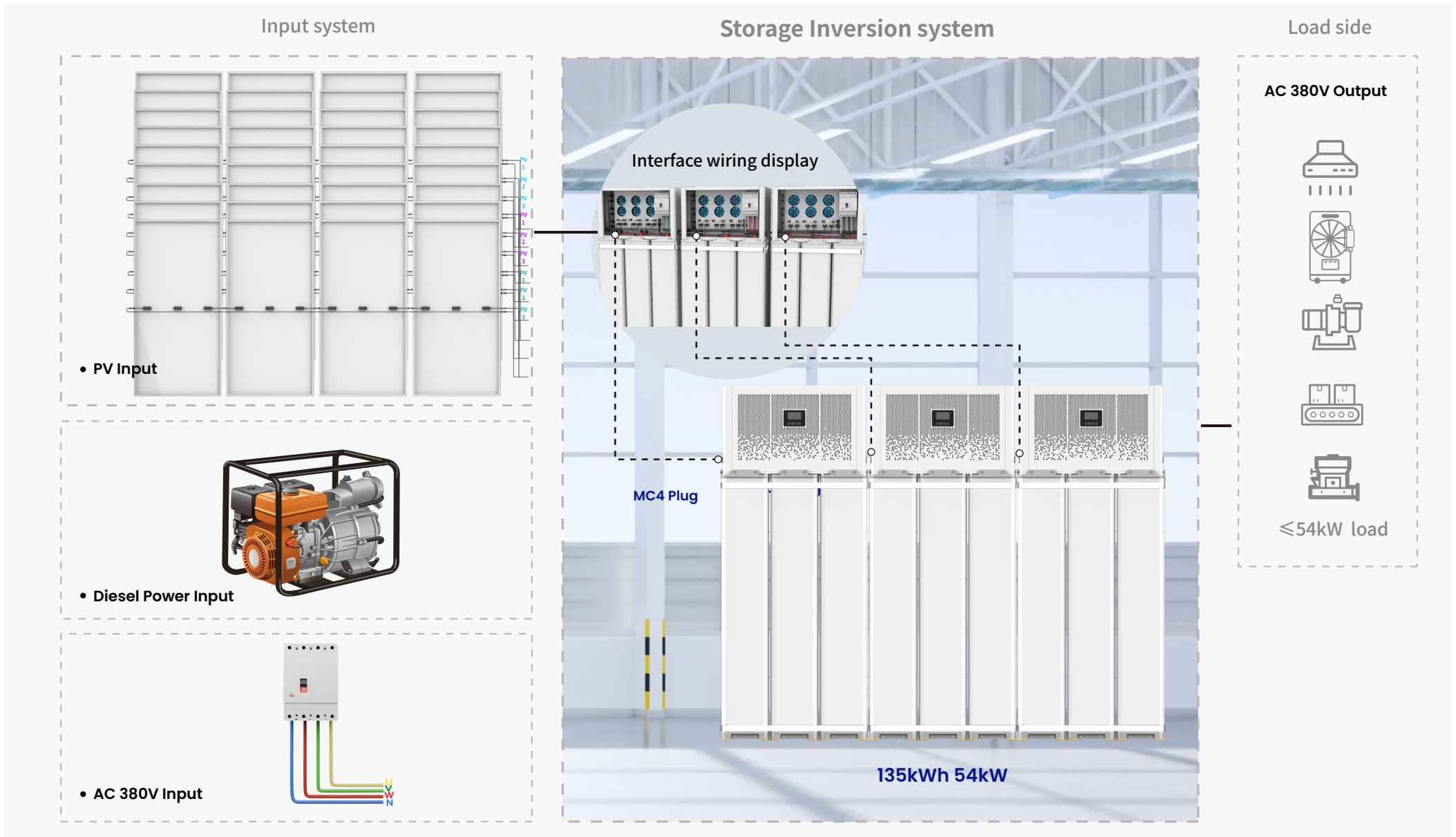
Solar Inverter Parameter

| | |
|-----------------------------|----------------------------|
| Rated power | 54kW |
| Rated input voltage (VAC) | 360/380/397/415;U+V+W+N+PE |
| Frequency (Hz) | 50/60 (auto adaptive) |
| Wave form | Pure sine wave |
| Battery rated voltage (VDC) | 48 |



380V/54kW 135kWh

System Connection Display



380V/54kW 135kWh

Advantage Introduction

Scable dynamic capacity expansion of the battery

- Modular design, can be dynamically expanded by 2-9 according to needs;
- Reduce ineffective inventory while expanding the customer base without increasing product categories.
- Ensure power supply stability and reduce costs.



Multiple inputs, convenient operation

- System cost reduced to less than 50%, with the significantly lower costs associated with transportation, safety regulations, and installation due to the high-voltage system becoming clearly visible;
- Transportation, installation, and usage are safer. Compared to the various safety labels emphasized on individual high-voltage energy storage cabinets, low-voltage energy storage batteries pose no threat to humans, fundamentally eliminating safety concerns;
- Mature low-voltage energy storage products are not only safe but also have established comprehensive sales channels, after-sales service, and proven case studies, leading to higher customer acceptance;
- Simple connection for immediate use. All wiring is completed at the factory end, reducing the probability of errors;
- Highly flexible and stable multi-input mode.



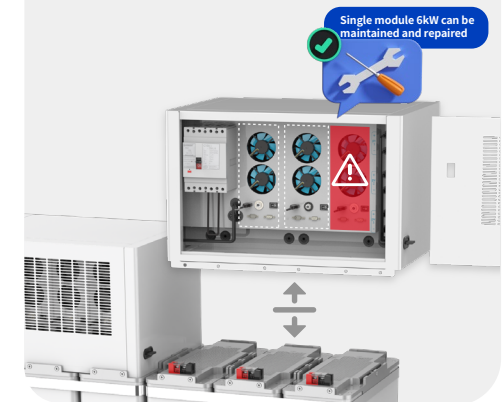
LiFePO4 battery

- Stable discharge and long cycle life;
- Safety and environmental protection;
- Super endurance, high and low temperature resistance.



Easy disassembly and high efficiency maintenance

- Separable storage and inverter structure, easy to disassemble and repair;
- Avoid moving batteries, reducing difficulty for maintenance;
- Reduce battery damage, ensure the equipment stable and reliable.



No special high-voltage safety regulations or certifications required.

No need for personnel with high-voltage certifications for installation.

No special transportation and installation tools needed.

135 kWh super reserve power

- Meet the needs of industrial production, field operations, etc.
- Ensure power supply for public service facilities.

