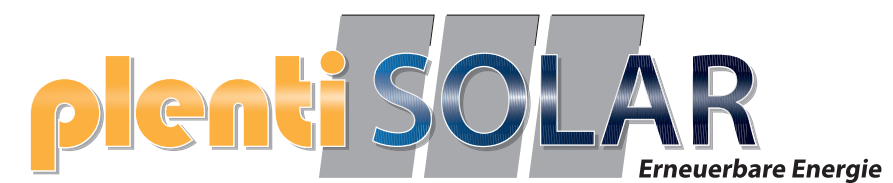


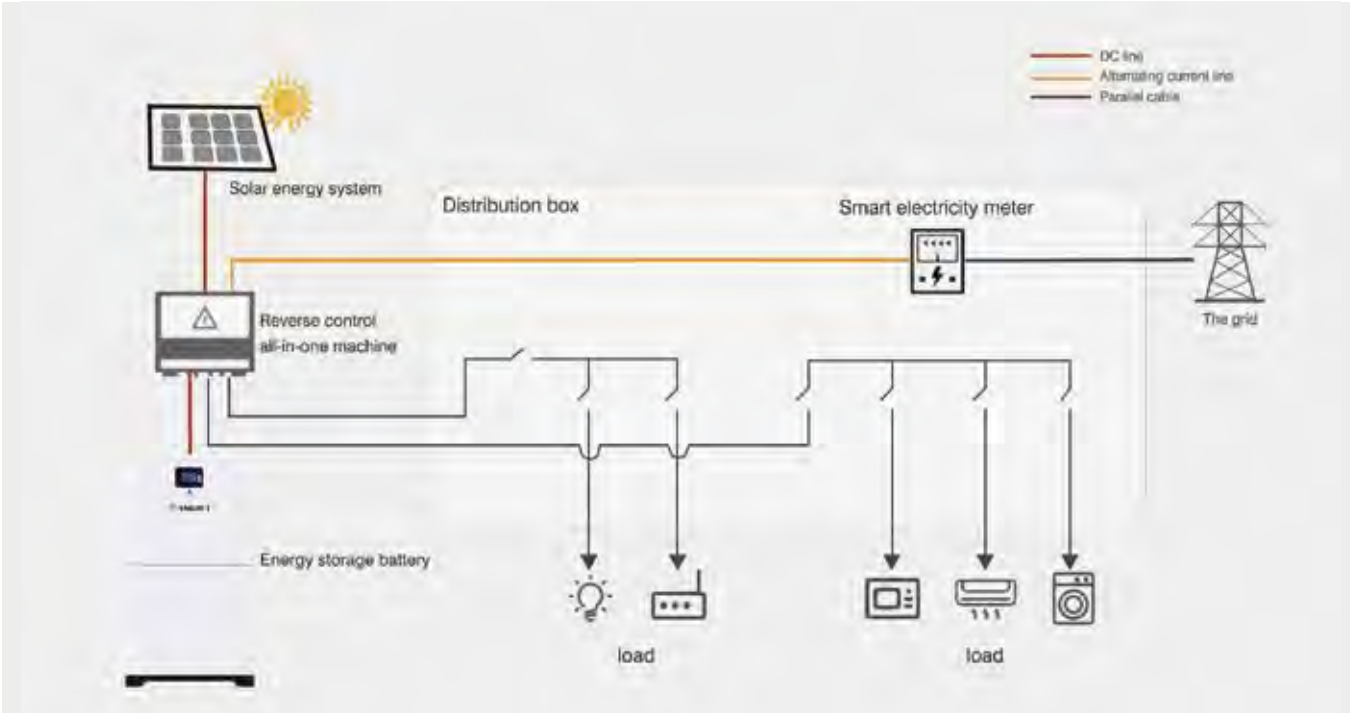


SOLAR ENERGY STORAGE SYSTEM AND SOLUTIONS



HOUSEHOLD ENERGY STORAGE SYSTEM

To ensure the electricity sustainability of residential users, saving costs, energy storage series of household energy storage system, can ensure the user's electricity sustainability, combined with solar power generation or fuel power generation, but also reduce the cost of electricity. Our intelligent and efficient energy storage systems are widely compatible with industry standard inverters and power management systems.



WIDELY USED

It is used in solar energy system/UPS/ communication base station/wind power generation/solar LED lamp, etc



HOME ENERGY STORAGE PRODUCT LINE



16S1P-51.2V280Ah is stacked 16S1P-51.2V400Ah is stacked 16S1P-51.2V100Ah wall hanging 128S1P-409.6V100Ah is stacked



Household energy storage system

- ◎ 16S1P-51.2V280Ah is stacked
- ◎ 16S1P-51.2V400Ah is stacked
- ◎ 16S1P-51.2V100Ah Wall hanging
- ◎ 128S1P-409.6V100Ah is stacked

- ★ Built-in BMS protection system
- ★ Large capacity parallel battery pack
- ★ Lithium iron phosphate battery
- ★ 15~10 years long warranty
- ★ Passed international certification
- ★ Easy to install and connect

STACKABLE HOME ENERGY STORAGE POWER SUPPLY

16S1P-51.2V280Ah is stacked



PRODUCT FEATURES

- Safe and reliable

 - Advanced lithium iron phosphate battery technology
 - Intelligent Power Management
 - Vehicle gauge quality management TS16949
- Intelligent Battery Management

 - Battery monitoring and protection
 - Overheat short circuit protection
 - APP wireless monitoring and management
- Flexible Application

 - Modular design for easy capacity expansion
 - Easy to handle and install
- Worry-free service

 - 5~10 years warranty
 - One-stop service

ASH HOME ENERGY STORAGE POWER SUPPLY SERIES

| ASH-51280 NOTE THE TECHNICAL PARAMETERS | | |
|--|---|--|
| BatteryPackspecificationsforsinglemodule | | |
| Item | Parameter | Remark |
| Combinationmethod | 16S1P | Two modules stacked in series, a single 8S1P |
| RatedCapacity | Typical: 280Ah | Standard discharge after Standard charge (package) |
| | Minimum: 274.4Ah | |
| FactoryVoltage | 50V-53V | Mean Operation Voltage |
| InternalImpedance | ≤50mΩ | Under 20±5℃ Environment Temperature, the Usage Frequency of Fully Charge(1KHz),Use AC Internal Impedance test machine to test 20±5℃ |
| MaxChargingCurrent(Icm) | 150A | Ampere-meter,Maximum allowable charging current of the battery pack |
| LimitedChargingVoltage(Ucl) | 58.4V | Volta-meter (Serial*3.65V), Battery pack safe charging voltage |
| MaxDischargingcurrent | 150A | Maximum discharge current allowed by the battery pack |
| DischargeCut-offvoltage(Udo) | 44.8V | Voltage of thebattery when the discharge is stopped |
| OperationTemperatureRange | Charge: 0~55℃ | Charge |
| | Discharge: -20~60℃ | Discharge |
| StorageTemperatureRange | Less than 12 months: -10~35℃ | Recommend (25±3℃) ; ≤60±25%RH storage moisture range. |
| | Less than 3 months: -10~45℃ | |
| | Lessthan7day: -20~55℃ | |
| Single moduleSize/weight | 600*500*200mm | 1PCS, single module about 58kg+5% |
| Size of appearance | L(length)1050±1.5mm W(width)600±1.5mm T(height)200±1.5mm | (1) The shell is black and white by default with fine sand spraying. Outdoor powder spraying can be customized according to customer requirements; (2) Positive terminal adhesive is red, negative terminal adhesive is black; (3) The positive and negative poles are quick-plug 200A terminals. The default connection line is 25 square red and black lines. The connection line can be customized according to customer requirements |
| terminal type | Quick plug terminal (red plus black minus) | |
| Cell Battery specifications | | |
| Item | Parameter | Remark |
| RatedCapacity | Typical: 280Ah | Standard charge after 0.33C _a standard discharge |
| | Minimum: 280Ah | |
| NominalVoltage | 3.2V | Mean Operation Voltage |
| InternalImpedance | ≤0.4mΩ | Under20±5℃ Environment Temperature,the Usage Frequency of Fully Charge(1KHz),Use AC Internal Impedance test machine to test 20±5℃ |
| Standardcharge | ConstantCurrent0.33C _a ,Constant Voltage3.65V,0.02C _a cut-off | Charge time:Approx 5.0h |
| RapidCharge | ConstantCurrent0.5C _a ,Constant Voltage3.65V,0.02C _a cut-off | Charge time:Approx 3.0h |
| StandardChargeCut-offVoltage | 3.65V | Voltage of the battery when the Charge is stopped |
| StandardDischargeCut-offVoltage | 2.5V | Voltage of the battery when the discharge is stopped |
| Standarddischarge | Constant current0.33C _a end voltage2.5V | 92A |
| Maximumdischargecurrent | Constant current0.55C _a end voltage2.5V | 150A@≥0℃ |
| Dimension | Thickness:71.7±0.6mm | Initial Dimension |
| | Width: 174±0.5mm | |
| | Height: 207±0.6mm | |
| Weight | 5.4kg± 0.27kg | APPROX. |
| OperatingTemperatureRange | Temperature:20-55°Humidity:≤60±25%RH | Charge/Discharge |
| StorageTemperatureRange | -20℃ ~ 25℃ | Recommend (25±3℃) ; ≤60±25%RH storage moistu rerange. |
| CyclePerformance | ≥6000times | 0.33C charging and discharging mode is used for cycle.When the continuous cycle discharge time is less than 80% of the nominal capacity,the life is terminated,and the cycle life is required to be≥6000 times |
| Battery Management System | | |
| BMS function introduction | | |
| 1.overcharge detection function | 2.over discharge detection function | 3.over current detection function |
| 4.short detection function | 5.Temperature detection function | 6.balance function |
| 7.communicate function | 8.Alarm function | 9.Totalcapa city function |
| 10. Storage history function | | |

STACKABLE HOME ENERGY STORAGE POWER SUPPLY

16S1P-51.2V100Ah*8PCS is stacked



PRODUCT FEATURES



Safe and reliable

- Advanced lithium iron phosphate battery technology
- Intelligent Power Management
- Vehicle gauge quality management TS16949



Flexible Application

- Modular design for easy capacity expansion
- Easy to handle and install



Intelligent Battery Management

- Battery monitoring and protection
- Overheat short circuit protection
- APP wireless monitoring and management



Worry-free service

- 5~10 years warranty
- One-stop service

ASH HOME ENERGY STORAGE POWER SUPPLY SERIES

ASH-51800 NOTE THE TECHNICAL PARAMETERS

| BatteryPackspecificationsforsinglemodule | | |
|--|--|---|
| Item | Parameter | Remark |
| Combinationmethod | 16S1P | |
| RatedCapacity | Typical: 100Ah | Standard discharge after Standard charge (package) |
| | Minimum: 98Ah | |
| FactoryVoltage | 50V-53V | Mean Operation Voltage |
| InternalImpedance | ≤40mΩ | Under 20±5°C Environment Temperature, the Usage Frequency of Fully Charge(1KHz),Use AC Internal Impedance test machine to test 20±5°C |
| MaxChargingCurrent(Icm) | 100A | Ampere-meter,Maximum allowable charging current of the battery pack |
| LimitedChargingVoltage(Ucl) | 58.4V | Volta-meter (Serial*3.65V), Battery pack safe charging voltage |
| MaxDischargingcurrent | 100A | Maximum discharge current allowed by the battery pack |
| DischargeCut-offvoltage(Udo) | 44.8V | Voltage of thebattery when the discharge is stopped |
| OperationTemperatureRange | Charge: 0~55°C | Charge |
| | Discharge: -20~60°C | Discharge |
| StorageTemperatureRange | Less than 12 months: -10~35°C | Recommend (25±3°C) ; ≤60±25%RH storage moisture range. |
| | Less than 3 months: -10~45°C | |
| | Lessthan7day: -20~55°C | |
| Single moduleSize/weiaht | 680*480*170.5mm | 1PCS, single module about 50kg+5% |
| Size of appearance | L(length)680±1.5mm | 1) The shell is white fine sand spraying by default, and outdoor powder spraying can be customized according to customer requirements; ② The positive extreme is red, and the negative extreme is black; ③ The positive and negative extremes are quick-plug 200A terminals. The default connection line is 25 square red and black lines. The connection line can be |
| | W(width)480±1.5mm | |
| | T(height)170.5±1.5mm | |
| terminal type | Flash OT terminal (red plus black minus) | customized according to customer requirements |

| Item | Parameter | Remark |
|---------------------------------|---|--|
| RatedCapacity | Typical: 100Ah | Standard charge after 0.33C ₅ A standard discharge |
| | Minimum: 100Ah | |
| NominalVoltage | 3.2V | Mean Operation Voltage |
| InternalImpedance | ≤0.4mΩ | Under20±5°C Environment Temperature,the Usage Frequency of Fully Charge(1KHz),Use AC Internal Impedance test machine to test 20±5°C |
| Standardcharge | ConstantCurrent 0.5C ₅ A,Constant Voltage3.65V,0.02C ₅ Acut-off | Charge time:Approx 2.5h |
| RapidCharge | ConstantCurrent 1C ₅ A,Constant Voltage3.65V,0.02C ₅ Acut-off | Charge time:Approx 1.5h |
| StandardChargeCut-offVoltage | 3.65V | Voltage of the battery when the Charge is stopped |
| StandardDischargeCut-offVoltage | 2.5V | Voltage of the battery when the discharge is stopped |
| Standarddischarge | Constant current 0.5C ₅ A end voltage2.5V | 50A |
| Maximumdischargecurrent | Constant current 1C ₅ A end voltage2.5V | 100A@≥0°C |
| Dimension | Thickness:47.8±0.6mm | Initial Dimension |
| | Width: 173.9±0.5mm | |
| | Height: 132.6±0.6mm | |
| Weight | 2.2kg±0.11kg | APPROX. |
| OperatingTemperatureRange | Temperature:20-55°Humidity:≤60±25%RH | Charge/Discharge |
| StorageTemperatureRange | -20°C ~ 25°C | Recommend (25±3°C) ; ≤60±25%RH storage moistu rerange. |
| CyclePerformance | ≥4000times | 0.33C charging and discharging mode is used for cycle.When the continuous cycle discharge time is less than 80% of the nominal capacity,the life is terminated,and the cycle life is required to be≥4000 times |

| Battery Management System | | |
|---------------------------------|-------------------------------------|-----------------------------------|
| BMS function introduction | | |
| 1.overcharge detection function | 2.over discharge detection function | 3.over current detection function |
| 4.short detection function | 5.Temperature detection function | 6.balance function |
| 7.communicate function | 8.Alarm function | 9.Totalcapa city function |
| 10. Storage history function | | |

WALL-MOUNTED HOUSEHOLD ENERGY STORAGE POWER SUPPLY

16S1P-51.2V100Ah Arc wall Mount



PRODUCT FEATURES

- Safe and reliable**

 - Advanced lithium iron phosphate battery technology
 - Intelligent Power Management
 - Vehicle gauge quality management TS16949
- Intelligent Battery Management**

 - Battery monitoring and protection
 - Overheat short circuit protection
 - APP wireless monitoring and management
- Flexible Application**

 - Modular design for easy capacity expansion
 - Easy to handle and install
- Worry-free service**

 - 5~10 years warranty
 - One-stop service

ASH HOME ENERGY STORAGE POWER SUPPLY SERIES

| ASH-51100 NOTE THE TECHNICAL PARAMETERS | | |
|--|---|---|
| BatteryPackspecificationsforsinglemodule | | |
| Item | Parameter | Remark |
| Combinationmethod | 16S1P | |
| RatedCapacity | Typical: 100Ah | Standard discharge after Standard charge (package) |
| | Minimum: 98Ah | |
| FactoryVoltage | 50V-53V | Mean Operation Voltage |
| InternalImpedance | ≤40mΩ | Under 20±5℃ Environment Temperature, the Usage Frequency of Fully Charge(1KHz),Use AC Internal Impedance test machine to test 20±5℃ |
| MaxChargingCurrent(Icm) | 100A | Ampere-meter,Maximum allowable charging current of the battery pack |
| LimitedChargingVoltage(Ucl) | 58.4V | Volta-meter (Serial*3.65V), Battery pack safe charging voltage |
| MaxDischargingcurrent | 100A | Maximum discharge current allowed by the battery pack |
| DischargeCut-offvoltage(Udo) | 44.8V | Voltage of thebattery when the discharge is stopped |
| OperationTemperatureRange | Charge: 0~55℃ | Charge |
| | Discharge: -20~60℃ | Discharge |
| StorageTemperatureRange | Less than 12 months: -10~35℃ | Recommend (25±3℃) ; ≤60±25%RH storage moisture range. |
| | Less than 3 months: -10~45℃ | |
| | Lessthan7day: -20~55℃ | |
| Single moduleSize/weight | 580*400*160mm | 1PCS, single module about 50kg+5% |
| Size of appearance | L(length)580±1.5mm | (1) (1) The shell is sprayed with black and white fine sand by default. Outdoor powder spraying can be customized according to customer requirements; (2) Positive terminal adhesive is red, negative terminal adhesive is black; |
| | W(width)400±1.5mm | |
| | T(height)160±1.5mm | (3) The positive and negative poles are quick-plug 200A terminals. The default connection line is 25 square red and black lines. The connection line can be customized according to customer requirements |
| terminal type | Flash OT terminal (red plus black minus) | |
| Cell Battery specifications | | |
| Item | Parameter | Remark |
| RatedCapacity | Typical: 100Ah | Standard charge after 0.33C _e A standard discharge |
| | Minimum: 100Ah | |
| NominalVoltage | 3.2V | Mean Operation Voltage |
| InternalImpedance | ≤0.4mΩ | Under20±5℃ Environment Temperature,the Usage Frequency of Fully Charge(1KHz),Use AC Internal Impedance test machine to test 20±5℃ |
| Standardcharge | ConstantCurrent 0.5C _e A,Constant Voltage3.65V,0.02C _e Acut-off | Charge time:Approx 2.5h |
| RapidCharge | ConstantCurrent 1C _e A,Constant Voltage3.65V,0.02C _e Acut-off | Charge time:Approx 1.5h |
| StandardChargeCut-offVoltage | 3.65V | Voltage of the battery when the Charge is stopped |
| StandardDischargeCut-offVoltage | 2.5V | Voltage of the battery when the discharge is stopped |
| Standarddischarge | Constant current 0.5C _e A end voltage2.5V | 50A |
| Maximumdischargecurrent | Constant current 1C _e A end voltage2.5V | 100A@≥0℃ |
| Dimension | Thickness:47.8±0.6mm | Initial Dimension |
| | Width: 173.9±0.5mm | |
| | Height: 132.6±0.6mm | |
| Weight | 2.2kg± 0.11kg | APPROX. |
| OperatingTemperatureRange | Temperature:20-55℃Humidity:≤60±25%RH | Charge/Discharge |
| StorageTemperatureRange | -20℃ ~ 25℃ | Recommend (25±3℃) ; ≤60±25%RH storage moistu rerange. |
| CyclePerformance | ≥4000times | 0.33C charging and discharging mode is used for cycle.When the continuous cycle discharge time is less than 80% of the nominal capacity,the life is terminated,and the cycle life is required to be≥4000 times |
| Battery Management System | | |
| BMS function introduction | | |
| 1.overcharge detection function | 2.over discharge detection function | 3.over current detection function |
| 4.short detection function | 5.Temperature detection function | 6.balance function |
| 7.communicate function | 8.Alarm function | 9.Totalcapa city function |
| 10. Storage history function | | |

STACKABLE HOME ENERGY STORAGE POWER SUPPLY

128S1P-409.6V100Ah*8PCS is stacked



PRODUCT FEATURES



Safe and reliable

- Advanced lithium iron phosphate battery technology
- Intelligent Power Management
- Vehicle gauge quality management TS16949



Flexible Application

- Modular design for easy capacity expansion
- Easy to handle and install



Intelligent Battery Management

- Battery monitoring and protection
- Overheat short circuit protection
- APP wireless monitoring and management



Worry-free service

- 5~10 years warranty
- One-stop service

ASH HOME ENERGY STORAGE POWER SUPPLY SERIES

ASH-51800 NOTE THE TECHNICAL PARAMETERS

| BatteryPackspecificationsforsinglemodule | | |
|--|-------------------------------|---|
| Item | Parameter | Remark |
| Combinationmethod | 128S1P | Single module chassis 16S1P/ system can be arbitrarily stacked to 8 modules chassis work in series |
| RatedCapacity | Typical: 100Ah | Standard discharge after Standard charge (package) |
| | Minimum: 98Ah | |
| FactoryVoltage | 400V-425V | Mean Operation Voltage |
| InternalImpedance | ≤50mΩ | Under 20±5°C Environment Temperature, the Usage Frequency of Fully Charge(1KHz),Use AC Internal Impedance test machine to test 20±5°C |
| MaxChargingCurrent(Icm) | 100A | Ampere-meter,Maximum allowable charging current of the battery pack |
| LimitedChargingVoltage(Ucl) | 467.2V | Volta-meter (Serial*3.65V), Battery pack safe charging voltage |
| MaxDischargingcurrent | 100A | Maximum discharge current allowed by the battery pack |
| DischargeCut-offvoltage(Udo) | 358.4V | Voltage of thebattery when the discharge is stopped |
| OperationTemperatureRange | Charge: 0~55°C | Charge |
| | Discharge: -20~60°C | Discharge |
| StorageTemperatureRange | Less than 12 months: -10~35°C | Recommend (25±3°C) ; ≤60±25%RH storage moisture range. |
| | Less than 3 months: -10~45°C | |
| | Lessthan7day: -20~55°C | |
| Single moduleSize/weiaht | 680*450*171mm | 1PCS, single module about 50kg+5% |

Cell Battery specifications

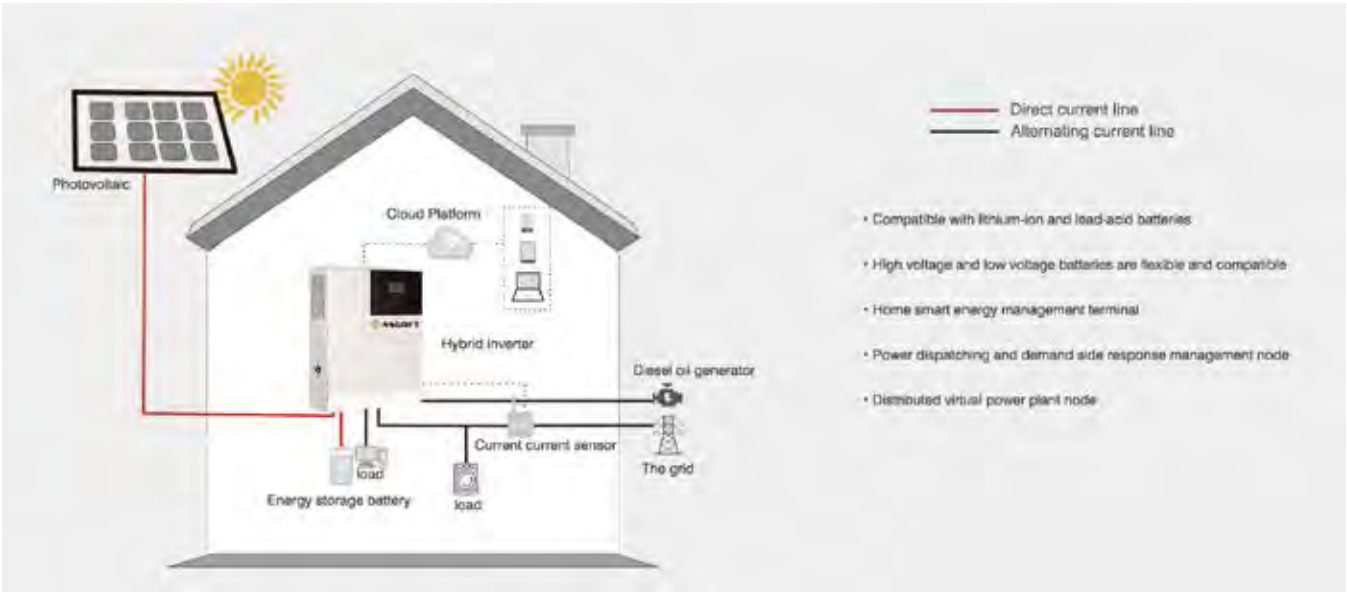
| Item | Parameter | Remark |
|---------------------------------|--|--|
| RatedCapacity | Typical: 100Ah | Standard charge after 0.33C ₅ A standard discharge |
| | Minimum: 100Ah | |
| NominalVoltage | 3.2V | Mean Operation Voltage |
| InternalImpedance | ≤0.4mΩ | Under20±5°C Environment Temperature,the Usage Frequency of Fully Charge(1KHz),Use AC Internal Impedance test machine to test 20±5°C |
| Standardcharge | Constant Current 0.5C ₅ A,Constant Voltage3.65V,0.02C ₅ Acut-off | Charge time:Approx 2.5h |
| RapidCharge | Constant Current 1C ₅ A,Constant Voltage3.65V,0.02C ₅ Acut-off | Charge time:Approx 1.5h |
| StandardChargeCut-offVoltage | 3.65V | Voltage of the battery when the Charge is stopped |
| StandardDischargeCut-offVoltage | 2.5V | Voltage of the battery when the discharge is stopped |
| Standarddischarge | Constant current 0.5C ₅ A end voltage2.5V | 50A |
| Maximumdischargecurrent | Constant current 1C ₅ A end voltage2.5V | 100A@≥0°C |
| Dimension | Thickness:47.8±0.5mm | Initial Dimension |
| | Width: 173.9±0.5mm | |
| | Height: 132.6±0.6mm | |
| Weight | 2.20kg ± 0.11kg | APPROX. |
| OperatingTemperatureRange | Temperature:20-55 C Humidity:≤60±25%RH | Charge/Discharge |
| StorageTemperatureRange | -20°C ~ 25°C | Recommend (25±3°C) ; ≤60±25%RH storage moistu rerange. |
| CyclePerformance | ≥4000times | 0.33C charging and discharging mode is used for cycle.When the continuous cycle discharge time is less than 80% of the nominal capacity,the life is terminated,and the cycle life is required to be≥4000 times |

Battery Management System

| BMS function introduction | | |
|---------------------------------|-------------------------------------|-----------------------------------|
| 1.overcharge detection function | 2.over discharge detection function | 3.over current detection function |
| 4.short detection function | 5.Temperature detection function | 6.balance function |
| 7.communicate function | 8.Alarm function | 9.Totalcapa city function |
| 10. Storage history function | | |

HOME LIGHT STORAGE SOLUTIONS

With the deepening of the low-carbon concept and the improvement of the economic benefits of zero-carbon homes and energy storage, the commercial application of PV+ESS has been gradually realized in developed areas. The Asgoft inverter solution for household can quickly respond to EMS dispatch instructions, and form an intelligent and friendly power supply system with roof PV, so that electricity consumption is more efficient. The Asgoft inverter is seamlessly switched with the mains, making the electricity use more stable.



WIDELY USED

Used in power station system/communication base station/nomadic farm/home electricity/RV and so on



INVERTER PRODUCT SERIES



10KW grid-connected inverter

5.5-33KW Parallel operation inverter

6KW Grid connection inverter

12KW 3 PHASEHYBRID INVERTER



OFF-GRID/GRID-CONNECTED HYBRID INVERTER

- ◎ 10KW connected to the grid
- ◎ 5.5-33kw Parallel operation
- ◎ 6KW Grid connection inverter
- ◎ 12KW PHASEHYBRID INVERTER
- ◎ microinverter

- ★ Supports automatic battery switching
- ★ Compatible with lead acid and lithium ion batteries and other battery access
- ★ Supports multi-machine parallel /BMS intelligent management
- ★ With battery backconnection protection, compatible with anti-countercurrent function





ASF series

All-in-one Solar Charge Inverter

ASF4880S180-H ASF48100S200-H



230V



48V



8-10kW



500V



IP20

/ Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

/ Safety

- 360 degrees of security from hardware to software
- With IEC, SAA, cETL, FCC certification

/ all in one

- Support for many types of batteries
- Supports Li-ion battery BMS communication

/ Reliable

- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power

/ User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

/ Intelligent

- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating parameters

| MODEL | ASF4880S180-H | ASF48100S200-H | CAN BE SET |
|--------------------------------------|--|----------------|------------|
| INVERTER OUTPUT | | | |
| Rated Output Power | 8,000W | 10,000W | |
| Max.Peak Power | 16,000W | 20,000W | |
| Rated Output Voltage | 230Vac (L1/N/PE single-phase) | | Y |
| Load Capacity of Motors | 5HP | 6HP | |
| Rated AC Frequency | 50/60Hz | | Y |
| Waveform | Pure Sine Wave | | |
| Switch Time | 10ms (typical) | | |
| Parallel capacity | / | | |
| BATTERY | | | |
| Battery Type | Li-ion / Lead-Acid / User Defined | | Y |
| Rated Battery Voltage | 48Vdc | | |
| Voltage Range | 40-60Vdc | | Y |
| Max.MPPT Charging Current | 200A | | Y |
| Max.Mains/Generator Charging Current | 100A | 120A | Y |
| Max.Hybrid Charging Current | 180A | 200A | Y |
| PV INPUT | | | |
| Num. of MPP Trackers | 2 | | |
| Max.PV array power | 11,000W | | |
| Max.input current | 22/22A | | |
| Max.Voltage of Open Circuit | 500Vdc | | |
| MPPT Voltage Range | 125-425Vdc | | |
| MAINS / GENERATOR INPUT | | | |
| Input Voltage Range | 90-270Vac | | |
| Frequency Range | 50/60Hz | | |
| Bypass Overload Current | 32A | | |
| EFFICIENCY | | | |
| MPPT Tracking Efficiency | 99.9% | | |
| Max. Battery Inverter Efficiency | 92% | | |
| GENERAL | | | |
| Dimensions | 620*435*130mm | | |
| Weight | 20kg | 21kg | |
| Protection Degree | IP20, Indoor Only | | |
| Operating Temperature Range | -15~55℃,>45℃ derated | | |
| Noise | <60dB | | |
| Cooling Method | Internal Fan | | |
| Warranty | 2 Years | | |
| COMMUNICATION | | | |
| Embedded Interfaces | RS485 / CAN / USB / Dry contact | | Y |
| External Modules (Optional) | Wi-Fi / GPRS | | Y |
| CERTIFICATION | | | |
| Safety | IEC62109-1, IEC62109-2 | | |
| EMC | EN61000-6-1, EN61000-6-3, FCC 15 class B | | |
| RoHS | Yes | | |



ASI parallel in

All-in-one Solar Charge Inverter

ASI-5500P



/ Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

/ Safety

- 360 degrees of security from hardware to software
- With EC, SAA, ETL, FCC certification

/ All in one

- Support for many types of batteries
- Supports Li-ion battery BMS communication

/ Reliable

- Outputs high-quality pure sine wave AC power
- Support parallel connection up to 30kw

/ User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

/ Intelligent

- Exclusive Li-ion battery RMS dual activation
- Single/Three phase output at the same time

| MODEL | ASI-5500P | Adjustable |
|--|--|------------|
| Battery Input | | |
| Battery type | Sealed、Flood、GEL、LFP、Ternary | √ |
| Rated Battery Input Voltage | 48V (Minimum Startup Voltage 44V) | |
| Hybrid Charging Maximum Charging Current | 100A | √ |
| Battery Voltage Range | 40Vdc 60Vdc 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/vervoltage Recovery...) | √ |
| Solar Input | | |
| Maximum PV Open-circuit Voltage | 500Vdc | |
| PV Working Voltage Range | 120-500Vdc | |
| MPPT Voltage Range | 120-450Vdc | |
| Maximum PV Input Current | 22A | |
| Maximum PV Input Power | 6000W | |
| Maximum PV Charging Current | 100A | √ |
| AC Input (generator/grid) | | |
| Mains Maximum Charging Current | 60A | √ |
| Rated Input Voltage | 220/230Vac | |
| Input Voltage Range | UPS Mains Mode: (170Vac~280Vac) ± 2% APL Generator Mode: (90Vac~280Vac) ± 2% | √ |
| Frequency | 50Hz/ 60Hz (Automatic Detection) | |
| Mains Charging Efficiency | >95% | |
| Switch Time (bypass and inverter) | 10ms(Typical Value) | |
| Maximum Bypass Overload Current | 40A | |
| AC Output | | |
| Output Voltage Waveform | Pure Sine Wave | |
| Rated Output Voltage | 230Vac | √ |
| Rated Output Power | 5500VA | |
| Rated Output Power | 5500W | |
| Peak Power | 11000VA | |
| On-load Motor Capacity | 4HP | |
| Output Frequency Range(Hz) | 50Hz+0.3Hz/60Hz+0.3Hz | √ |
| Maximum Efficiency | >92% | |
| No-load Loss | Non Energy-saving Mode: ≤ 50W Energy-saving Mode: ≤ 25W (Manual Setup) | |
| General | | |
| Number of parallel/split phases | 1-6PCS | |
| Certificate | CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.1071)/FCC/SAA | |
| EMC Certification Level | EN61000, C2 | |
| Working Temperature Range | -10°C~55°C | |
| Storage Temperature Range | -25°C~60 °C | |
| Humidity Range | 5% to 95%(Conformal Coating Protection) | |
| Size(L*W*D) | 426mm*322mm*124mm | |
| Weight | 10.5kg | |
| | | |



ASI Single grid connection

Single-phase Solar Hybrid Inverter

ASI-5.5K-S



/ Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

/ Safety

- 360 degrees of security from hardware to software
- With EC, SAA, ETL, FCC certification

/ All in one

- Support for many types of batteries
- Supports Li-ion battery BMS communication

/ Reliable

- Outputs high-quality pure sine wave AC power
- Support parallel connection up to 30kw

/ User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

/ Intelligent

- Exclusive Li-ion battery RMS dual activation
- Single/Three phase output at the same time

| MODEL | ASI-5.5K-S | Adjustable |
|--|---|------------|
| Battery Input Parameters | | |
| Battery type | Lead-acid Battery or Lithium Battery | √ |
| Rated Battery Input Voltage | 48V (Minimum Startup Voltage 44V) | |
| Hybrid Charging Maximum Charging Current | 100A | √ |
| Battery Voltage Range | 40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overtoltage Warning/Overtoltage Recovery...) | √ |
| Solar Input Parameters | | |
| Maximum PV Open-circuit Voltage | 500Vdc | |
| PV Working Voltage Range | 120-500Vdc | |
| MPPT Voltage Range | 120-450Vdc | |
| Maximum PV Input Current | 22A | |
| Maximum PV Input Power | 6000W | |
| Maximum PV Charging Current | 100A | √ |
| Mains Input Parameters | | |
| Mains Maximum Charging Current | 60A | √ |
| Rated Input Voltage | 220/230Vac | |
| Input Voltage Range | UPS Mains Mode: (170Vac~280Vac)±2% APL Generator Mode: (90Vac-280Vac) ± 2% | √ |
| Frequency | 50Hz/ 60Hz (Automatic Detection) | |
| Mains Charging Efficiency | >95% | |
| Switch Time (bypass and inverter) | 10ms(Typical Value) | |
| Maximum Bypass Overload Current | 40A | |
| AC Output Parameter | | |
| Output Voltage Waveform | Pure Sine Wave | |
| Rated Output Voltage | 230Vac (200/208/220/240Vac) | √ |
| Rated Output Power | 5500VA (4780VA/4970VA/5260VA/5500VA) | |
| Rated Output Power | 5500W (4780W/4970W/5260W/5500W) | |
| Peak Power | 11000VA | |
| On-load Motor Capacity | 4HP | |
| Output Frequency Range(Hz) | 50Hz+0.3Hz/60Hz+0.3Hz | √ |
| Maximum Efficiency | >90% | |
| No-load Loss | Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup) | |
| Basic Parameters | | |
| Certificate | CE(IEC 62109-1) | |
| EMC Certification Level | EN61000 | |
| Working Temperature Range | -25°C ~ 55°C | |
| Storage Temperature Range | -25°C ~ 60°C | |
| Humidity Range | 0% to 100% | |
| Waterproof Grade | IP65 | |
| Size(L*W*D) | 556mm*345mm*182mm | |
| Weight | 19.2kg | |



ASI Three union

Three-phase optical storage hybrid inverter

AHS-R6KH3 R8KH3 R10KH3 R12KH3 R15KH3



230V



48V



5kW



500V



IP20

/ Efficiency

- Advancad MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

/ Safety

- 360 degrees of security from hardware to software
- With EC, SAA, ETL, FCC certification

/ All in one

- Support for many types of batteries
- Supports Li-ion battery BMS communication

/ Reliable

- Outputs high-quality pure sine wave AC power
- Support paralel cornection up to 30kw

/ User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

/ Intelligent

- Exclusive I -ion battery RMS dual activation
- Single/Three phase output at the same time

| MODEL | ASI-R6KH3 | ASI-R8KH3 | ASI-R10KH3 | ASI-R12KH3 | ASI-R15KH3 |
|---|---|-----------|------------|------------|------------|
| Input DC (PV) | | | | | |
| Max.PV Input Power | 9000W | 12000W | 15000W | 18000W | 22500W |
| Max. PV Voltage | 1000V | | | | |
| MPPT Voltage Range | 180V-850V | | | | |
| Full Power MPPT Voltage Range | 250V-850V | 330V~850V | 430V-850V | 510V~850V | 620V~850V |
| Start-up Voltage | 125V | | | | |
| Max.Input Current per MPPT | 13/13A | 13/13A | 13/13A | 13/13A | 20/20A |
| Max. Short-circuit Current | 16/16A | 16/16A | 16/16A | 16/16A | 30/30A |
| Number of MPP Trackers | 2 | | | | |
| MPPT Number/Max. Input Strings Number | 1/1 | 1/1 | 1/1 | 1/1 | 2/2 |
| Rated Input Voltage | 600V | | | | |
| AC Output Data | | | | | |
| Nominal Output Power | 6000VA | 8000VA | 10000VA | 12000VA | 15000VA |
| Max. Apparent Power | 6600VA | 8800VA | 11000VA | 13200VA | 16500VA |
| Max. Apparent Power from Grid | 13200VA | 17600VA | 22000VA | 26400VA | 33000VA |
| Max. Apparent Current from Grid | 19.1A | 25A | 31.8A | 38.1A | 47.6A |
| Nominal Output Current | 8.7A | 11.5A | 14.4A | 17.3A | 21.7A |
| Max.Output Current | 9.5A | 12.7A | 15.9A | 19.1A | 23.8A |
| Nominal Grid Voltage | 380V/400V, 3W+N+PE | | | | |
| Nominal Grid Frequency | 50Hz/60Hz | | | | |
| THDI | <2% | | | | |
| AC Output Data(Back Up) | | | | | |
| Nominal Output Voltage | 400V,3W+N+PE | | | | |
| Nominal Output Frequency | 50Hz/60Hz | | | | |
| THDu | <2% | | | | |
| Max.Efficiency | 97.9% | 97.9% | 98.2% | 98.2% | 98.5% |
| Europe Efficiency | 97.2% | 97.2% | 97.5% | 97.5% | 97.6% |
| MPPT Efficiency | 99.9% | | | | |
| Max.Battery Charge/Discharge Efficiency | 97.5% | 97.5% | 97.5% | 97.6% | 97.8% |
| Battery | | | | | |
| Max.Charging/Discharging Power | 6600W | 8800W | 11000W | 13200W | 16500W |
| Battery Voltage Range | 125~600V | | | | |
| Battery Working Voltage Range | 150~550V | | | | |
| Max.Charging/Discharging Current | 50A | | | | |
| Rated.Charging/Discharging Current | 40A | | | | |
| Battery Type | Lithium and Lead Acid Battery | | | | |
| Interface | | | | | |
| HIMI | LCD;APP | | | | |
| BMS | RS485,CAN | | | | |
| Meter | RS485 | | | | |
| Supported Communication Interface | WIFI / GPRS / 4G | | | | |
| General Data | | | | | |
| Dimensions (W*H*D) | 530*560*220mm | | | | |
| Weight | 30kg | 30kg | 31kg | 32kg | 34kg |
| Ingress Protection | IP65 | | | | |
| Relative Humidity | ≤25dB | | | | |
| Operating Temperature Range | Wall Mounted | | | | |
| Operating Altitude | -35~60 C | | | | |
| Cooling | 0~100% | | | | |
| Noise Emission | 4000m(Derating above 2000 m) | | | | |
| Installation | Natural Convection | | | | |
| EMC | IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011 | | | | |
| Grid Regulation | Europe: EN 50549-1:2019/AC:2019, Poland:EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPIREE:2021, Germany:VDE-AR-N 4105:2018 /DIN VDE V 0124-100(VDE V 0124-100):2020, South Africa:NRS 097-2-1:2017 Edition 2.1, UK:G99/1-6:2020, Spain:UNE217001:2020 /UNE217002:2020/NTS V2.1:2021-07, IEC61727:2004/IEC6116:2014/IEC61683:1999, Hungary:EN50549-1:2019/RFG:2016/Hungary | | | | |
| Safety Regulation | IEC/EN62109-1:2010, IEC/EN62109-2:2011 | | | | |