





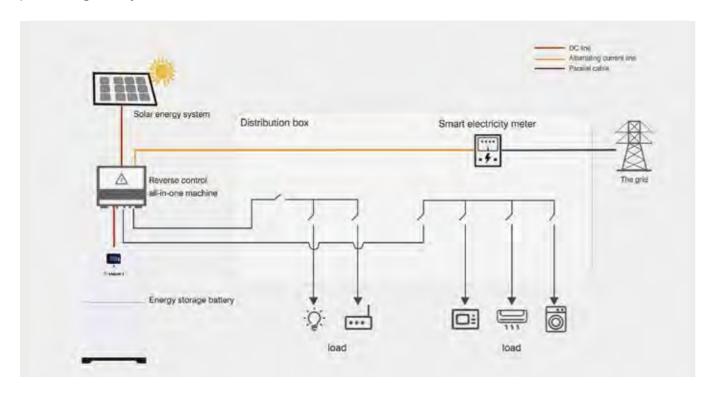
SOLAR ENERGY STORAGE SYSTEM AND SOLUTIONS





## **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



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



#### **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

10. Storage history function

BatteryPackspecificati	onsforsinglemodule	
Item	Parameter	Remark
Combinationmethod	16S1P	Two modules stacked in series, a single 8S1P
RatedCapacity	Typical: 280Ah	Standard discharge after Standard
,	Minimum: 274.4Ah	charge (package)
FactoryVoltage	50V-53V	Mean Operation Voltage
InternalImpedance	≤50mΩ	Under 20±5°C Environment Temperature, the Usage Frequency of Fully Charge(IKHz),Use AC Internal Impedance test machine to test 2
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°C	Charge
operationnemperaturemenge	Discharge: -20~60°C	Discharge
StorageTemperatureRange	Less than 12 months; -10~35°C	Recommend (25±3°C) ; ≤60±25%RH storage moisture range.
otorage temperature range	Less than 3 months: -10~45°C	Ticcomment (2010 C) , 20012076111 storage moisture range.
	Lessthan7day: -20~55℃	
Single moduleSize/weiaht	600*500*200mm	1PCS, single module about 58kg+5%
Size of appearance	L(length)1050±1.5mm	(1) The shell is black and white by default with fine sand spraying. Outdoor powder spraying can be
оге от арреатапсе	W(width)600±1.5mm	
	T(height)200±1.5mm	customized according to customer requirements; (2) Positive terminal adhesive is red, negative terminal
terminal tuna	, , ,	adhesive is black; (3) The positive and negative poles are quick-plug 200A terminals. The default connection lin
terminal type	Quick plug terminal (red plus black minus)	is 25 square red and black lines. The connection line can be customized according to customer requirements
Cell Battery specificati		
Item	Parameter	Remark
RatedCapacity	Typical: 280Ah	Standard charge after 0.33C <sub>s</sub> A standard discharge
	Minimum: 280Ah	
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
Standardcharge	ConstantCurrent0.33C <sub>s</sub> A,Constant Voltage3.65V,0.02C <sub>s</sub> Acut-off	
RapidCharge	ConstantCurrent0.5C <sub>s</sub> A,Constant Voltage3.65,V0.02C <sub>s</sub> Acut-off	
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 <sub>5</sub> A end voltage2.5V	92A
Maximumdischargecurrent	Constant current0.55C <sub>5</sub> A end voltage2.5V	150A@≥0° <b>C</b>
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°C ~ 25°C	Recommend (25±3°C) ; ≤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 introduc	etion	
Divio fariotion introduc		





# 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

BatteryPackspecificationsforsinglemodule   Item   Parameter   Remark   Combistromethod   16STP	ASH-51800 NOTE	THE TECHNICAL PARAMETERS	
Item			
Combinationethod   16SIP   Typical: 100Ah   Minimum: 98Ah   Standard discharge after Standard   Charge (package)   Typical: 100Ah   Standard discharge after Standard   Charge (package)   Mean Operation Voltage   Mean Op			Remark
Typical: 100Ah   Standard discharge after Standard charge (package)   Minimum: 98Ah   Charge (package)   Mean Operation Voltage			
Minimum: 988h   S0V-53V   Mean Operation Voltage   Internal Impedance   S40mΩ   Under 82±°C Environment Temperature. Net Using Procuracy of Pluy Chargifficial Set Net Internal Impedance test method Charging (shape)   Under 82±°C Environment Temperature. Net Using Procuracy of Pluy Chargifficial Set Net Internal Impedance test method Charging (shape)   Under 82±°C Environment Temperature. Net Using Procuracy of Pluy Chargifficial Set Net Internal Impedance test method Charging (shape)   Under 82±°C Environment Temperature. Net Using Procuracy of Pluy Charging (shape)   Under 82±°C Environment Temperature Net Net Using Procuracy of Pluy Charging (shape)   Under 82±°C   Charge   Under 82±°C   Charge   Under 82±°C   Charge   Under 82±°C   Under 82±°C   Under 92±°C   Under 82±°C   Under 82±			Standard discharge after Standard
Internating productions	,	71	
InternalImpedance ≤40mΩ Under 20a*PC Environment Temperature, the Usage Finguismy of Fally Charge(Revisible AC inversal Impedance near north MacChargingCurrent(Iom) 100A Ampere-meter/Maximum allowable charging current of the battery public Limited/DangingVollage(Uo) 58.84V Volta-meter (Serial*13.65V), Battery pack safe charging voltage Mas/Dischargingcurrent 100A Maximum discharge current allowed by the battery pack Mas/Dischargingcurrent 100A Maximum discharge current allowed by the battery pack Debategot. AdaPs Voltage of thebattery when the discharge is stopped Operation/Depation/Particles (Party 20-65°C Charge Discharge: -20−65°C Discharge (2−65°C Charge Discharge) 2.0−65°C Charge Discharge: -20−65°C Charge Discharge (2−65°C Charge Discharge) 2.0−65°C Charge Discharge (2−65°C Charge Discharge) 2.0−65°C Charge Discharge (2−65°C Charge Discharge) 2.0−65°C Charge Discharge modisture range (2−65°C Charge Discharge) 2.0−65°C Charge Discharge (2−65°C Charge Discharge) 2.0−65°C Charge Discharge Modificate (1−65°C Charge Discharge) 2.0−65°C Charge Discharge Modificate (1−65°C Charge Discharge) 2.0−65°C Charge Discharge Discharge Discharge (2−65°C Charge Discharge) 2.0−65°C Charge Discharge	FactoryVoltage		
MarchargingCurrent(lom)  100A  Ampere-meter.Maximum allowable charging current of the battery p  WalchargingCurrent(lom)  100A  Maximum discharge current allowed by the battery pack safe charging voltage  MaschargeCut-divoltage(Uo)  A4.8V  Volta-meter (Serial*3.65V), Battery pack safe charging voltage  Maximum discharge current allowed by the battery pack  Charge  Discharge: 20~60°C  Discharge  Less than 12 months: 10~45°C  Less than 3 months: 10~45°C  Recommend (25±3°C); ≤60±2596RH storage moisture range  Terminal (Less than 3 months: 10~45°C  Less than 3 months: 10~45°C  Recommend (25±3°C); ≤60±2596RH storage moisture range  Terminal (Less than 3 months: 10~45°C  Less than 3 months: 10~45°C  Less than 3 months: 10~45°C  Less than 3 months: 10~45°C  Recommend (25±3°C); ≤60±2596RH storage moisture range  TPCS, single module about 50kg+5%  Size of appearance  L(length)6800±1.5mm  T(height)170.5±1.5mm  T(height)		≤40mΩ	Under 20±5°C Environment Temperature, the Usage Frequency of Fully Charge(IKHz). Use AC Internal Impedance test machine to test 20
Limited/Chargingtolage(Uo)         58.4V         Volta-meter (Serial*3.65V), Battery pack safe charging voltage           Maxibochargingcurrent         100A         Maximum discharge current allowed by the battery pack           Discharged, offiotiage(Uob)         44.8V         Voltage of thebattery when the discharge is stopped           Operation/emperatureRange         Charge: 0~55°C         Charge           Discharge: 20~60°C         Discharge           Storage/EmperatureRange         Less than 3 months - 10~45°C         Recommend (25±3°C); ≤60±2596RH storage moisture range           Less than 3 months - 10~45°C         Recommend (25±3°C); ≤60±2596RH storage moisture range           Single module/Size/velatt         680*480*170.5mm         1PCS, single module about 50kg+596           Size of appearance         L(length)680±1.5mm         1) The shell is whate fine sand spraying by default, and outdoor powder spraying can be outstorized accord           Wijvoid/Hy/80±1.5mm         1) The shell is whate fine sand spraying by default, and outdoor powder spraying can be outstorized accord           Very limital type         Flash OT terminal (red plus black minus)         20 The shell is whate fine sand spraying by default, and outdoor powder spraying can be outstorized accord           Littlem         Parameter         Remark           Reteactopacity         Typical: 100Ah         Standard charge after 0.33C,A standard discharge           Morimum: 100Ah		100A	Ampere-meter,Maximum allowable charging current of the battery pack
Maximum discharge current allowed by the battery pack   Discharge Cut-offiologic (Usb)   44.8V   Voltage of thebattery when the discharge is stopped		58.4V	
Discharge Cit-offiologie (Udo)   A4.8V   Voltage of thebattery when the discharge is stopped		100A	
Discharge: -20~60°C   Discharge		44.8V	
Discharge: -20~60°C   Discharge		Charge: 0∼55°C	
Less than 1 months -10~35°C   Less than 2 months -10~45°C   Less than 3 months -10~45°C   Less than 7 day: -20~55°C		-	
Less than 3 months: -10 ~ 45°C Less than 7day: -20 ~ 55°C Single moduleSize/weight 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 accord requirements: ② The positive extreme is red, and the negative extreme is black; ③ The positive and reg are quick-plug 2004 terminals. The default connection line is 25 square red and black lines. The connecti terminal type Flash OT terminal (red plus black minus) customized according to according to customized according to according to customized according to according to according to customized according to according to according to according to customized according to according to according to according to customized according to accor	StorageTemperatureRange		
Single moduleSize/weiaht 680*480*170.5mm 1PCS, single module about 50kg+5% Size of appearance L(length)680±1.5mm W(width)480±1.5mm T(height)170.5±1.5mm T(		Less than 3 months: -10 ~45°C	
Size of appearance   L(length)680±1.5mm   V(width)480±1.5mm		Lessthan7day: -20~55°C	-
W(width)480±1.5mm requirements; ② The positive extreme is red, and the negative extreme is black; ③ The positive and negrous are quick-plug 200A terminals. The default connection line is 25 square red and black lines. The connection line is 25 square req and black lines. The connection line is 25 square require red and black lines. The connection line is 25 square require red and black lines. The connection line is 25	Single moduleSize/weiaht	680*480*170.5mm	1PCS, single module about 50kg+5%
T(height)170.5±1.5mm are quick-plug 200A terminals. The default connection line is 25 square red and black lines. The connection time is 25 square red and black lines. The connection time is 25 square red and black lines. The connection terminal type  Flash OT terminal (red plus black minus)  Cell Battery specifications  Item Parameter Remark  RatedCapacity Typical: 100Ah Standard charge after 0.33C <sub>g</sub> A standard discharge Minimum: 100Ah  NominalVoltage Mean Operation Voltage  InternalImpedance S0.4mΩ Under20±5°C Environment Temperature the Usage Frequency of Fully Charge(INF4)Use AC Internal Impedance test machine StandardCharge  ConstantCurrent 0.5C <sub>g</sub> A.Constant Voltage3.65V,002C <sub>g</sub> Acut-off Charge time:Approx 2.5h  RapidCharge Cut-offVoltage 3.65V Voltage of the battery when the Charge is stopped StandardChargeCut-offVoltage Constant current 1C <sub>g</sub> A end voltage2.5V Voltage of the battery when the Charge is stopped StandardChargeCut-offVoltage Constant current 0.5C <sub>g</sub> A end voltage2.5V 50A  Maximumdschargecurent Constant current 1C <sub>g</sub> A end voltage2.5V 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	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 cust
terminal type         Flash OT terminal (red plus black minus)         customized according to customer requirements           Cell Battery specifications           Item         Parameter         Remark           RatedCapacity         Typical: 100Ah         Standard charge after 0.33C <sub>g</sub> A standard discharge           Mean Operation Voltage           Mean Operation Voltage           Internal Impedance         ≤ 0.4mΩ         Under20±5°C Environment Temperaturethe Usage Frequency of Fully Charge(IRVe)Use AC Internal Impedance test machine           StandardCharge         ConstantCurrent 0.5C <sub>g</sub> A Constant Voltage3.65V,00.2C <sub>g</sub> Acut-off         Charge time:Approx 2.5h           RapidCharge         ConstantCurrent 1C <sub>g</sub> A.Constant Voltage3.65V,00.2C <sub>g</sub> 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 1C <sub>g</sub> A end voltage2.5V         50A           Maximumdischargecurrent         C		W(width)480±1.5mm	requirements; ② The positive extreme is red, and the negative extreme is black; ③ The positive and negative extrem
Cell Battery specifications           Item         Parameter         Remark           RatedCapacity         Typical: 100Ah         Standard charge after 0.33C <sub>g</sub> A standard discharge           Minimum: 100Ah         Mean Operation Voltage           InternalImpedance         ≤0.4mΩ         Under20±5°C Environment Temperature; the Usage Frequency of Fully Charget(KHc)Use Ac Internal Impedance test machine           Standardcharge         ConstantCurrent 0.5C <sub>x</sub> A.Constant Voltage3.65,V0.02C <sub>x</sub> Acut-off         Charge time: Approx 1.5h           RapidCharge         ConstantCurrent 10 <sup>2</sup> <sub>x</sub> A.Constant Voltage3.65,V0.02C <sub>x</sub> 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           StandardDischargeCut-offVoltage         Constant current 0.5C <sub>x</sub> A end voltage2.5V         50A           Maximumdischargecurrent         Constant current 10 <sup>2</sup> <sub>x</sub> A end voltage2.5V         50A           Dimension         Thickness:47.8±0.6mm         Initial Dimension           Weight         2.2kg±0.11kg         APPROX.           OperatingTemperatureRange         Temperature:20-55°Humidity:≤60±2596RH         Charge/Discharge		T(height)170.5±1.5mm	are quick-plug 200A terminals. The default connection line is 25 square red and black lines. The connection line can
Item         Parameter         Remark           RatedCapacity         Typical: 100Ah         Standard charge after 0.33C <sub>s</sub> A standard discharge           MominalVoltage         3.2V         Mean Operation Voltage           InternalImpedance         ≤0.4mΩ         Under20±5°C Environment Temperature;the Usage Frequency of Fully Charge(IKHz),Use AC Internal Impedance test machine           Standardcharge         ConstantCurrent 0.5C <sub>s</sub> A.Constant Voltage3.65V,002C <sub>s</sub> Acut-off         Charge time: Approx 2.5h           RapidCharge         ConstantCurrent 1°C <sub>s</sub> A.Constant Voltage3.65V,002C <sub>s</sub> 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 <sub>s</sub> A end voltage2.5V         50A           Maximumdischargecurrent         Constant current 1°C <sub>s</sub> A end voltage2.5V         100A@≥0°C           Dimension         Thickness:47.8±0.6mm         Initial Dimension           Weight         2.2kg±0.11kg         APPROX.           OperatingTemperatureRange         Temperature:20-55°Humidity:≤60±2596RH         Charge/Discharge	terminal type	Flash OT terminal (red plus black minus)	customized according to customer requirements
Typical: 100Ah   Standard charge after 0.33C <sub>g</sub> A standard discharge	Cell Battery specificati	ons	
Minimum: 100Ah         NominalVoltage       3.2V       Mean Operation Voltage         InternalImpedance       ≤0.4mΩ       Under20±5°C Environment Temperature.the Usage Frequency of Fully Charge (IKH-Iz).Use AC Internal Impedance test machine:         Standardcharge       ConstantCurrent 0.5C <sub>x</sub> A.Constant Voltage3.65V.0.02C <sub>x</sub> Acut-off       Charge time:Approx 2.5h         RapidCharge       ConstantCurrent 10 <sub>x</sub> A.Constant Voltage3.65V.0.02C <sub>x</sub> 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 <sub>x</sub> A end voltage2.5V       50A         Maximumdischargecurrent       Constant current 1C <sub>x</sub> A end voltage2.5V       100A@≥0°C         Dimension       Thickness:47.8±0.6mm       Initial Dimension         Weight       2.2kg±0.31kg       APPROX.         OperatingTemperatureRange       Temperature:20-55°Humidity:≤60±25%RH       Charge/Discharge	Item	Parameter	Remark
Nominal/Voltage         3.2V         Mean Operation Voltage           InternalImpedance         ≤0.4mΩ         Under20±5°C Environment Temperature:the Usage Frequency of Fully Charget(IKHz),Use AC Internal Impedance test machine:           Standardcharge         ConstantCurrent 0.5C <sub>x</sub> A,Constant Voltage3.65,V0.02C <sub>x</sub> Acut-off         Charge time:Approx 2.5h           RapidCharge         ConstantCurrent 1C <sub>x</sub> A,Constant Voltage3.65,V0.02C <sub>x</sub> 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 <sub>x</sub> A end voltage2.5V         50A           Maximumdischargecurrent         Constant current 1C <sub>x</sub> A end voltage2.5V         100A@≥0°C           Dimension         Thickness:47.8±0.6mm         Initial Dimension           Weight         2.2kg±0.11kg         APPROX.           OperatingTemperatureRange         Temperature:20-55°Humidity:≤60±25%RH         Charge/Discharge	RatedCapacity	Typical: 100Ah	Standard charge after 0.33C <sub>x</sub> A standard discharge
InternalImpedance         ≤ 0.4mΩ         Under20±5°C Environment Temperature, the Usage Frequency of Fully Charge (104-tz), Use AC Internal Impedance test machine           Standardcharge         Constant Current 0.5C <sub>8</sub> A. Constant Voltage 3.65V,0.02C <sub>8</sub> Acut-off         Charge time: Approx 1.5h           StandardCharge         Constant Current 1C <sub>8</sub> A, Constant Voltage 3.65V,0.02C <sub>8</sub> Acut-off         Voltage of the battery when the Charge is stopped           StandardDischargeCut-offVoltage         3.65V         Voltage of the battery when the discharge is stopped           StandardDischarge         Constant current 0.5C <sub>8</sub> A end voltage2.5V         50A           Maximumdischargecurrent         Constant current 1C <sub>8</sub> A end voltage2.5V         100A@≥0°C           Dimension         Thickness:47.8±0.6mm         Initial Dimension           Weight         2.2kg±0.11kg         APPROX.           OperatingTemperatureRange         Temperature:20-55°Humidity: ≤60±25%RH         Charge/Discharge		Minimum: 100Ah	
Standardcharge Constant Current 0.5C <sub>s</sub> A, Constant Voltage 3.65V, 0.02C <sub>s</sub> Acut-off Charge time: Approx 2.5h  RapidCharge Constant Current 1C <sub>s</sub> A, Constant Voltage 3.65V, 0.02C <sub>s</sub> Acut-off Charge time: Approx 1.5h  StandardChargeCut-offVoltage 3.65V Voltage of the battery when the Charge is stopped Voltage of the battery when the discharge is stopped StandardDischargeCut-offVoltage Constant current 0.5C <sub>s</sub> A end voltage 2.5V Voltage of the battery when the discharge is stopped Standarddischarge Constant current 1C <sub>s</sub> A end voltage 2.5V 50A  Maximumdischargecurrent Constant current 1C <sub>s</sub> A end voltage 2.5V 100A@≥0°C  Dimension Thickness: 47.8 ± 0.6mm  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	NominalVoltage	3.2V	Mean Operation Voltage
RapidCharge       ConstantCurrent 1C <sub>s</sub> A,Constant Voltage3.65,V0.02C <sub>s</sub> 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 <sub>s</sub> A end voltage2.5V       50A         Maximumdischargecurrent       Constant current 1C <sub>s</sub> 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±0.1lkg       APPROX.         OperatingTemperatureRange       Temperature:20-55°Humidity: ≤60±25%RH       Charge/Discharge	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
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 <sub>s</sub> A end voltage2.5V     50A       Maximumdischargecurrent     Constant current 1C <sub>s</sub> A end voltage2.5V     100A@≥0°C       Dimension     Thickness:47.8±0.6mm     Initial Dimension       Weight     2.2kg±0.5mm     APPROX.       OperatingTemperatureRange     Temperature:20-55°Humidity:≤60±25%RH     Charge/Discharge	Standardcharge	ConstantCurrent 0.5C <sub>x</sub> A,Constant Voltage3.65V,0.02C <sub>x</sub> Acut-off	Charge time:Approx 2.5h
StandardDischargeCut-offVoltage     2.5V     Voltage of the battery when the discharge is stopped       Standarddischarge     Constant current 0.5C₅A end voltage2.5V     50A       Maximumdischargecurrent     Constant current 1C₅A 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	RapidCharge	ConstantCurrent 1C <sub>s</sub> A <sub>s</sub> Constant Voltage3.65,V0.02C <sub>s</sub> Acut-off	Charge time: Approx 1.5h
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	StandardChargeCut-offVoltage	3.65V	Voltage of the battery when the Charge is stopped
Maximumdischargecurrent     Constant current 1C₅A 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	StandardDischargeCut-offVoltage	2.5V	Voltage of the battery when the discharge is stopped
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	Standarddischarge	Constant current 0.5C <sub>5</sub> A end voltage2.5V	50A
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	Maximumdischargecurrent	Constant current 1C <sub>5</sub> A end voltage2.5V	100A@ <u>≥</u> 0° <b>C</b>
Height: 132.6±0.6mm  Weight 2.2kg±0.11kg APPROX.  OperatingTemperatureRange Temperature:20-55°Humidity:≤60±25%RH Charge/Discharge	Dimension	<u> </u>	Initial Dimension
Weight     2.2kg± 0.11kg     APPROX.       OperatingTemperatureRange     Temperature:20-55°Humidity:≤60±25%RH     Charge/Discharge		Width: 173.9±0.5mm	
OperatingTemperatureRange Temperature:20-55°Humidity:≤60±25%RH Charge/Discharge		Height: 132.6±0.6mm	
	Weight	2.2kg ± 0.11kg	APPROX.
StorageTemperatureRange -20°C ~ 25°C Recommend (25±3°C) ; ≤60±25%RH storage moistu rerange	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	CyclePerformance	≥4000times	0.33C charging and discharging mode is used for cycle.When the continuous cycle discharge time is less

#### 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



#### **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

10. Storage history function

BatteryPackspecificat	brisiorsinglemodule		
Item	Parameter	Remark	
Combinationmethod	16S1P		
RatedCapacity	Typical: 100Ah	Standard discharge after Standard	
	Minimum: 98Ah	charge (package)	
FactoryVoltage	50V-53V	Mean Operation Voltage	
InternalImpedance	≤40mΩ	Under 20±5 <sup>*</sup> C Environment Temperature, the Usage Frequency of Fully Charge(1KHz),Use AC Internal Impedance test machine to test 2	
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° <b>C</b>	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	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 customize	
	W(width)400±1.5mm	according to customer requirements; (2) Positive terminal adhesive is red, negative terminal adhesive is black;	
	T(height)160±1.5mm	(3) The positive and negative poles are quick-plug 200A terminals. The default connection line is 25 square red a	
terminal type	Flash OT terminal (red plus black minus)	black lines. The connection line can be customized according to customer requirements	
Cell Battery specificat	ions		
Item	Parameter	Remark	
RatedCapacity	Typical: 100Ah	Standard charge after 0.33C <sub>5</sub> 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	
Standardcharge	ConstantCurrent 0.5C <sub>s</sub> A,Constant Voltage3.65V,0.02C <sub>s</sub> Acut-off	Charge time:Approx 2.5h	
RapidCharge	ConstantCurrent 1C <sub>s</sub> A,Constant Voltage3.65,V0.02C <sub>s</sub> 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 A end voltage2.5V	50A	
	5		
Maximumdischargecurrent	Constant current 1C <sub>5</sub> A end voltage2.5V	100A@ <u>≥</u> 0°C	
		100A@≧0° <b>C</b> Initial Dimension	
	Constant current 1C <sub>s</sub> A end voltage2.5V		
	Constant current 1C <sub>s</sub> A end voltage2.5V  Thickness:47.8±0.6mm		
Dimension	Constant current 1C <sub>s</sub> A end voltage2.5V  Thickness:47.8±0.6mm  Width: 173.9±0.5mm		
Dimension  Weight	Constant current 1C <sub>s</sub> A end voltage2.5V  Thickness:47.8±0.6mm  Width: 173.9±0.5mm  Height: 132.6±0.6mm	Initial Dimension	
Dimension  Weight  OperatingTemperatureRange	Constant current 1C <sub>s</sub> A end voltage2.5V  Thickness:47.8±0.6mm  Width: 173.9±0.5mm  Height: 132.6±0.6mm  2.2kg±0.11kg	Initial Dimension  APPROX.	
Maximumdischargecurrent  Dimension  Weight  OperatingTemperatureRange  StorageTemperatureRange  CyclePerformance	Constant current 1C <sub>s</sub> A end voltage2.5V  Thickness:47.8±0.6mm  Width: 173.9±0.5mm  Height: 132.6±0.6mm  2.2kg±0.11kg  Temperature:20-55°Humidity:≤60±25%RH	Initial Dimension  APPROX.  Charge/Discharge	
Dimension  Weight  OperatingTemperatureRange  StorageTemperatureRange	Constant current 1C <sub>s</sub> A end voltage2.5V  Thickness:47.8±0.6mm  Width: 173.9±0.5mm  Height: 132.6±0.6mm  2.2kg±0.11kg  Temperature:20-55°Humidity:≤60±25%RH  -20°C ~ 25°C	Initial Dimension  APPROX.  Charge/Discharge  Recommend (25±3°C) ; ≤60±25%RH storage moistu rerange.	
Dimension  Weight  OperatingTemperatureRange StorageTemperatureRange  CyclePerformance	Constant current 1C <sub>o</sub> A end voltage2.5V  Thickness:47.8±0.6mm  Width: 173.9±0.5mm  Height: 132.6±0.6mm  2.2kg±0.11kg  Temperature:20-55°Humidity:≤60±25%RH  -20°C ~ 25°C  ≥4000times	Initial Dimension  APPROX.  Charge/Discharge  Recommend (25±3°C) ; ≤60±25%RH storage moistu rerange.  0.33C charging and discharging mode is used for cycle.When the continuous cycle discharge time is less	
Dimension  Weight  OperatingTemperatureRange StorageTemperatureRange CyclePerformance  Battery Management	Constant current 1C <sub>s</sub> A end voltage2.5V  Thickness:47.8±0.6mm  Width: 173.9±0.5mm  Height: 132.6±0.6mm  2.2kg±0.11kg  Temperature:20-55°Humidity:≤60±25%RH  -20°C ~ 25°C  ≥4000times	Initial Dimension  APPROX.  Charge/Discharge  Recommend (25±3°C) ; ≤60±25%RH storage moistu rerange.  0.33C charging and discharging mode is used for cycle.When the continuous cycle discharge time is less	
Dimension  Weight OperatingTemperatureRange StorageTemperatureRange CyclePerformance  Battery Management BMS function introdu	Constant current 1C <sub>s</sub> A end voltage2.5V  Thickness:47.8±0.6mm  Width: 173.9±0.5mm  Height: 132.6±0.6mm  2.2kg±0.11kg  Temperature:20-55°Humidity:≤60±25%RH  -20°C ~ 25°C  ≥4000times	Initial Dimension  APPROX.  Charge/Discharge  Recommend (25±3°C); ≤60±25%RH storage moistu rerange.  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	
Dimension  Weight  OperatingTemperatureRange StorageTemperatureRange CyclePerformance  Battery Management  BMS function introdu  1.overcharge	Constant current 1C <sub>s</sub> A end voltage2.5V  Thickness:47.8±0.6mm  Width: 173.9±0.5mm  Height: 132.6±0.6mm  2.2kg±0.11kg  Temperature:20-55°Humidity:≤60±25%RH  -20°C ~ 25°C  ≥4000times  System etion	Initial Dimension  APPROX.  Charge/Discharge  Recommend (25±3°C); ≤60±25%RH storage moistu rerange.  0.33C charging and discharging mode is used for cycleWhen 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  ection function  3.over current detection function	





# STACKABLE HOME ENERGY STORAGE POWERS PPLY

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

Item	Parameter	Remark
		· · · · · · · · · · · · · · · · · · ·
Combinationmethod	128S1P	Single module chassis 16S1P/ system can be arbitrarily stacked to 8 modules chassis work in serie
RatedCapacity	Typical: 100Ah	Standard discharge after Standard
	Minimum: 98Ah	charge (package)
FactoryVoltage	400V-425V	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±50.
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 <sub>s</sub> 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 <sub>s</sub> A,Constant Voltage3.65V,0.02C <sub>s</sub> Acut-off	Charge time:Approx 2.5h	
RapidCharge	ConstantCurrent 1C <sub>s</sub> A,Constant Voltage3.65,V0.02C <sub>s</sub> 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 <sub>5</sub> A end voltage2.5V	50A	
Maximumdischargecurrent	Constant current 1C <sub>5</sub> A end voltage2.5V	100A@≧0° <b>C</b>	
Dimension	Thickness:47.8±0.5mm	Initial Dimension	
	Width: 173.9±0.5mm		
	Height: 132.6±0.6mm		
Weight	$2.20 \text{kg} \pm 0.11 \text{kg}$	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	

BMS	function	introduction

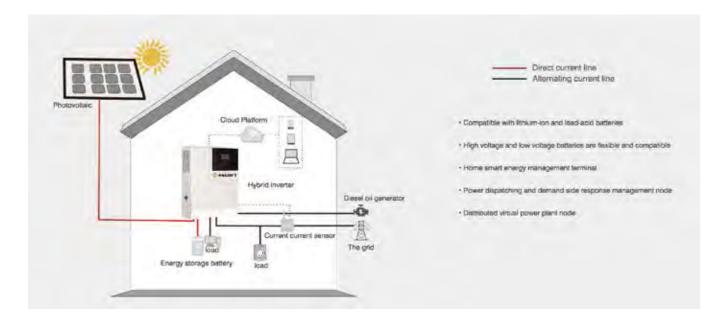
1.overcharge detection function 2.over discharge detection function 4.short detection function 5.Temperature detection function 8.Alarm function 7.communicate function 10. Storage history function

3.over current detection function 6.balance function

9.Totalcapa city 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



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







# / 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

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

MODEL	ASF4880S180-H	ASF48100S200-H	CAN BE
INVERTER OUTPUT	'		021
Rated Output Power	8,000W	10,000W	
Max.Peak Power	16,000W	20,000W	
Rated Output Voltage	230Vac (L1/N/F	PE single-phase)	Υ
Load Capacity of Motors	5HP	6HP	
Rated AC Frequency	50/	60Hz	Y
Waveform	Pure S	ine Wave	
Switch Time	10ms (	typical)	
Parallel capacity			
BATTERY			
Battery Type	Li-ion / Lead-A	cid / User Defined	Υ
Rated Battery Voltage	48	3Vdc	
Voltage Range	40-	60Vdc	Υ
Max.MPPT Charging Current	20	AOC	Y
Max.Mains/Generator Charging Current	100A	120A	Υ
Max.Hybrid Charging Current	180A	200A	Υ
PV INPUT			
Num. of MPP Trackers		2	
Max.PV array power	11,0		
Max.input current	22	/22A	
Max.Voltage of Open Circuit	50	0Vdc	
MPPT Voltage Range	125-425Vdc		
MAINS / GENERATOR INPUT			
Input Voltage Range	90–2	270Vac	
Frequency Range	50/	60Hz	
Bypass Overload Current	3	2A	
EFFICIENCY			
MPPT Tracking Efficiency	99	0.9%	
Max. Battery Inverter Efficiency	9	2%	
GENERAL			
Dimensions	620*43	5*130mm	
Weight	20kg	21kg	
Protection Degree	IP20, Ir	idoor Only	
Operating Temperature Range	–15~55°C,>	45°C derated	
Noise	<6	60dB	
Cooling Method	Interi	nal Fan	
Warranty	2 \	/ears	
COMMUNICATION			
Embedded Interfaces	RS485 / CAN / USB / Dry contact		Υ
External Modules (Optional)	Wi-	Fi / GPRS	Υ
CERTIFICATION			
Safety	IEC62109-1	, IEC62109-2	
EMC		00-6-3, FCC 15 class B	
RoHS		'es	



# / Efficiency

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- Multiple charge and discharge modes are available

# / Safety

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

#### / All in one

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

### / Reliable

- Outputs high-quality pure sine wave AC power
- Support paralel cornection up to 3okw

## / User-Friendly

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

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

MODEL	ASI-5500P	Adjust
Battery Input		
Battery type	Sealed、FLood、GEL、LFP、Ternary	√
Rated Battery Input Voltage	48V ( Minimum Startup Voltage 44V)	1
Hybrid Charging Maxi	100A	√
mum Charging Current		1
Battery Voltage Range	40Vdc 60Vdc 0.6Vdc(Undervoltage Warning/Shutdown Voltage/	
	Overvoltage Warning/vervoltage Recovery)	1
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)	B
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	8 8 8 8
Maximum Bypass Overload Current	40A	B B B B
AC Output		
Output Voltage Waveform	Pure Sine Wave	2 5 6 8
Rated Output Voltage	230Vac	√
Rated Output Power	5500VA	
Rated Output Power	5500W	1
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)	1 1 1 1
General	The state of the s	<u> </u>
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	B B B B B B B B B B B B B B B B B B B
Storage Temperature Range	-25°C~60°C	
Humidity Range	5% to 95%(Conformal Coating Protection)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Size(L*W*D)	426mm*322mm*124mm	B B B B
OIZO(L VV D)	10.5kg	





# / Efficiency

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

# / Safety

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

#### / All in one

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

### / Reliable

- Outputs high-quality pure sine wave AC power
- Support paralel cornection up to 3okw

# / User-Friendly

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

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

MODEL	ASI-5.5K-S	Adjust
Battery Input Parameters		
Battery type	Lead-acid Battery or Lithium Battery	√
Rated Battery Input Voltage	48V ( Minimum Startup Voltage 44V)	
Hybrid Charging Maxi	100A	√
mum Charging Current		
Battery Voltage Range	40Vdc $\sim$ 60Vdc $\pm$ 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage	√
	Warning/Overvoltage 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	
nput 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)	1 1 1 1
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	1 1 1 1 1
Working Temperature Range	-25°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	8 8 8 8
Humidity Range	0% to 100%	
Waterproof Grade	IP65	1 1 1 1
-	556mm*345mm*182mm	1
Size(L*W*D)		1





Three-phase optical storage hybrid inverter

AHS-R6KH3 R8KH3 R10KH3 R12KH3 R15KH3











# / Efficiency

## / Safety

### / All in one

### / Reliable

# / User-Friendly

MODEL	A OL DOLALO	A CL DOLCHO	A OL DIOLULO	A OL DIOLLIO	A OL DIFICUO
MODEL	ASI-R6KH3	ASI-R8KH3	ASI-R10KH3	ASI-R12KH3	ASI-R15KH3
Input DC (PV )	000011	4000014	.=0.011/	4000014	2252211
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		i	2	i	
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		3	80V/400V, 3W+N+P	E	
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		i	i		
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		Lithi	um and Lead Acid Ba	ntterv	
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	oong	551.9	IP65	5 <u>L</u> .\9	5 11/9
Relative Humidity			≤25dB		
Operating Temperature Range			Wall Mounted		
Operating Altitude					
Cooling	-35~60 °C				
Noise Emission	0~100% 4000m(Derating above 2000 m)				
Installation		1000	Natural Convection	00 111)	
EMC	IEC/EN	61000-6-1:2019 IEC/EN 61	000-6-2:2019, IEC/EN 61000	-6-3·2021 IENI/EN 61000 6	S-4·2019
2.510			000-8-2:2019, IEC/EIN 61000 000-3-3:2013/A2:2021, IEC/I		
			000-3-3:2013/AZ:2021, IEC/1 19-1:2019/Rfg:2016/NC Rfg:2		
Grid Regulation					
and negulation			h Africa:NRS 097-2-1:2017 Ed M/IEC62116:2014/IEC61683:1		•
Safety Regulation	/UNEZ1/UUZ;ZUZU/N1S		14/IEC62116:2014/IEC61683:1 109-1:2010, IEC/EN62		ะบาฮ/ทศน.2บาง/mungary
Salety negulation		IEC/EIN02	103-1.2010, IEC/EN02	.103-2.2011	