

COMPANY PROFILE

AJ POWER is an one stop energy solution supplier who have got ISO9001 issued by TUV Rheinland when it was just established. AJ POWER mainly covers three fields: household energy storage system, RV energy storage system, portable power station and its accessories. Rely on our strong R&Dteam, we can not only provide standard product, but also customized solution.

35
Service
merchants

97%
Completion
rate

21day
Average
duration



Supply solar panels, 51.2V series lifepo4 battery, solar charge controller and inverter or hybrid inverter, providing both off-grid and on-grid 5KWh-60KWh household energy solution.



Off grid solution in vehicle, including flexible solar panel, solar charge controller, 12V lifepo4 battery or 24V lifepo4 battery and pure sine wave inverters and DC converter charger or battery chargers, etc



Portable Power station range from 300W to 3000W and fold-able solar panels both PET and ETFE tech, with 23.2% charge efficiency.



IOT solution for different fields, which can be customized as well.



Certificate

Standard: **ISO 9001:2015**
Certificate Registr. No: **01 100 2033160**

Certificate Holder: **AJ POWER Co., Ltd.**
Unified Social Credit Code: 91440703MA54XQGE0F
Registration Address: Room 406, Block 1 of Yilda, Business estate, No.114 of Shengli Road, Pingliang District, Jiangmen City, Guangdong Province 529700, P.R. China
Operation Address: same as above

Scope: Research & Development, Sales of New Energy Related Products (Rechargeable Battery, Portable Power Supply, Energy Storage System, Adapter, Charger)

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2021-05-10 until 2024-05-09. It remains valid subject to satisfactory surveillance audits. First certification 2021. This certificate information can be searched on CNCA official website <http://www.cnca.gov.cn>

2021-05-10

TÜV Rheinland Cert. Order: AN-GW-2021-05-10

www.tuv.com

IAF DAKS TÜV Rheinland



Home Energy storage





Home Energy Storage



	AJ-P5C	AJ-E5A	AJ-ES4U	AJ-P7A	AJ-P10A
Usable Energy [1] (Wh)	5120	5120	5120	6912	10240
Battery Type	LiFePO4				
Nominal Voltage(V)	51.2				
Cell capacity (AH)	100	100	100	135	200
Working Voltage Range(V)	40 ~ 58.4				
Designed Life-span	6000 cycles				
DOD	100%				
Max Parallel Quantity	16				6
Communication	RS485 / CAN / RS232				
Dimensions(W/D/H)(mm)	635*400*230	635*400*165	484*432*177	1028*78*545	502*171*823
Weight (KG)	46.3	45	42	63.3	90.6
Enclosure Protection Rating	IP65				
Design life	10 years				
Operating temperature[2]	-10°C to +60°C				
Certification & Safety Standard	MSDS / UN38.3				

[1] Test conditions: 100% DOD, 0.2C charge & discharge at +25 °C

[2] -10 °C to 10 °C will be derating



	PowerCube P5C-10	PowerCube P5C-15	PowerCube P5C-20	PowerCube P5C-25	PowerCube P5C-30
Battery module Quantity	2	3	4	5	6
Usable Energy [1] (kWh)	10.24	15.36	20.48	25.6	30.72
Battery Type	LiFePO4				
Nominal Voltage (V)	51.2				
Cell capacity (AH)	100				
Working Voltage Range(V)	40 ~ 58.4				
Designed Life-span	6000 cycles				
DOD	100%				
Max Parallel Quantity	16				
Communication	RS485 / CAN / RS232				
Dimensions (W/D/H) (mm)	635*400*430	635*400*630	635*400*830	635*400*1030	635*400*1230
Weight (KG)	100	150	200	250	300
Enclosure Protection Rating	IP65				
Design life	10 years				
Operating temperature [2]	-10°C to +60°C				
Certification & Safety Standard	MSDS / UN38.3				

[1] Test conditions: 100% DOD, 0.2C charge & discharge at +25 °C

[2] -10 °C to 10 °C will be derating

Home Energy Storage

JA SOLAR

LONGi

Solar
JinkO
Building Your Trust in Solar

 CanadianSolar

Trina solar

 协鑫
GCL

 YINGLI SOLAR

 risen
东方日升



SOLAR PV MODULE



ELECTRICAL PERFORMANCE PARAMETERS STC						
Power Output	Pmax(W)	540	545	550	555	560
Rated Power Maximum Voltage	Vmp(V)	40.80	40.90	41.00	41.10	41.20
Rated Power Maximum Current	Imp(A)	13.27	13.36	13.45	13.54	13.63
Open Circuit Voltage	Voc(V)	49.50	49.60	49.70	49.80	49.90
Short Circuit Current	Isc(A)	13.85	13.94	14.03	14.12	14.21
Module Efficiency	(%)	20.9	21.1	21.3	21.5	21.7
Power Tolerance	(W)	0 ~ +5W				
STC : 1000W/m2 irradiance, 25°C module temperature, AM1.5 spectrum.				Power measurement error ± 3%		

ELECTRICAL PERFORMANCE PARAMETERS NOCT						
Power output	Pmax (W)	408.8	412.6	416.4	420.1	423.9
Rated Power Maximum Voltage	Vmp (V)	37.82	37.91	38.00	38.10	38.19
Rated Power Maximum Current	Imp (A)	10.81	10.89	10.96	11.04	11.11
Open Circuit Voltage	Voc (V)	46.73	46.82	46.92	47.01	47.11
Short Circuit Current	Isc (A)	11.08	11.15	11.22	11.30	11.37
NMOT:800W/m2 irradiance, 20°C module temperature, 1m/s wind speed. Power measurement error ± 3%						



30Y Warranty

182M HALF CELL 535W-550W

- Outstanding mechanical load resistance**
2400 Pa windload,5400 Pa snow load
- Anti-PID(potential induced degradation)**
Passed anti-PID test under 85% damp heat, 85% relative humidity for 96 hours
- Great Durability against extreme conditions**
Passed salt mist corrosion test, ammonia corrosion test, dust&sand test, fire test, all certified by TUV
- Double electroluminescence (EL) tests**
Carefully inspected before and after lami nation to guarantee fault-free modules

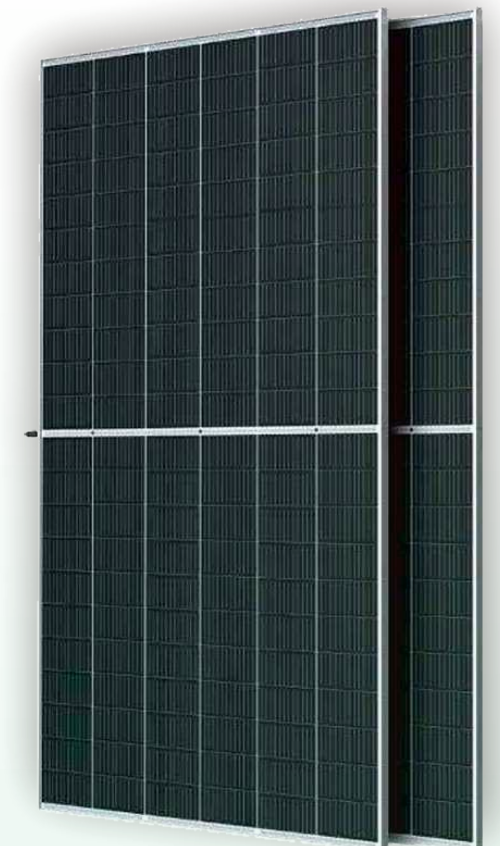


ELECTRICAL PERFORMANCE

ModelType	YH535W-36MH		YH540W-36MH		YH545W-36MH		YH550W-36MH	
Dimensions(L /W /H)	2279×1134×35		2279×1134×35		2279×1134×35		2279×1134×35	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Powerat STC (Pmax)	535	397.7	540	401.4	545	405.1	550	408
Maximum Power Voltage(Vmp)	41.6	38.62	41.76	38.78	41.93	38.93	42.13	39.09
Maximum Power Current(Imp)	12.87	10.32	13.00	10.35	13	10.41	13.06	10.46
Open Circuit Voltage(Voc)	49.5± 3%	46.36± 3%	49.7± 3%	46.54± 3%	49.9± 3%	46.73± 3%	50.1± 3%	46.92± 3%
Short Circuit Current(Isc)	13.64± 3%	10.99± 3%	13.73± 3%	11.06± 3%	13.81± 3%	11.13± 3%	13.9± 3%	11.2± 3%
Module Efficiency(%)	20.7		20.9		21.09		21.28	

CONSTRUCTION MATERIALS

Front Cover (Material/Thickness)	low-iron tempered glass /3.2mm
Cell (Quantity/Type/Dime nsions)	182*91Mono
No. of Cells	144 (6*12)*2
Frame (Material)	Anodized Aluminium Alloy
Junction Box (Protection Degree)	IP67/IP68
Cable(Length/Cross-Sectional Area)	4mm² cable30cm+mc4





Home Energy Storage

ON/OFF GRID SOLAR INVERTER AJ POWER MAX SERIES



»» Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 160A MPPT solar charger (for 8.2kw,10.2kw)
- Dual communication ports for Battery communication and Wifi communication
- High PV input voltage range(90~ 500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output
- Dual PV input
- Touch button
- On Off Grid Work Mode

»» Product Data Sheet

MODEL	AJ MAX-8.2KW	AJ MAX-10.2KW
Phase	1-phase	
Maximum PV Input Power	5400W+5400W	
Rated Output Power	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	

GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	190~253VDC	
Nominal Output Current	35.6A	44.3A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	8200W	10200W
Maxium Main Load	8200W	10200W
Maxium Second Load(battery mode)	2733W	3400W
Maxium Load Cut Off Voltage	52VDC	
Maxium Load Return Voltage	54VDC	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VACor170-280VAC	
Frequency Range	49~51±1HZ	
Maximum AC Input Current	40A	50A
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	94%	
BATTERY & CHARGER		
Nominal DC Voltage	48VDC	
Maximum Solar Charging Current	160A	
Maximum AC Charging Current	140A	
Maximum Solar+AC Charging Current	160A	
HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90~450VDC	
Maximum Input Current	2/18A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	190~253VDC	
Nominal Output Current	35.6A	44.3A
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VACor170-180VAC	
Maximum AC Input Current	40A	50A
Maximum AC Charging Current	140A	
GENERAL		
PHYSICAL		
Dimension,D*W*H(mm)	530*390*130	
Cartoon Dimension,D *W *H(mm)	618*463*205	
Net Weight (kgs)	14.2	14.7
Gross Weight(kgs)	15.7	16.2
INTERACE		
Communication Port	RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature	-10℃~50℃	
STANDARD		
Compliance Safety	CE	



Home Energy Storage

ON/OFF GRID SOLAR INVERTER

AJ POWER ECO SERIES



»» Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS andAndroid
- Inverter can run without battery
- One-key restoration to factory settings
- Built-in Lithium battery automatic activation
- Dual communication ports for battery communication and Wifi fcommunication
- Built-in 140A(for 4.2KW) / 120A(for 3.6KW/6.2KW) MPPT Solar charge:max 6200W(for 3.6KW/4.2KW), max 6500W (for 6.2KW)
- High PV input voltage range(60~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

»» Product Data Sheet

MODEL	AJ NM-ECO-3.6KW PLUS	AJ NM-ECO-4.2KW PLUS	AJ NM-ECO-6.2KW PLUS
Phase	1-phase		
Maximum PV Input Power	6200W	6200W	6500W
Rated Output Power	3600W/3600VA	4200W/4200VA	6200W/6200VA
Maximum Solar Charging Current	120A	140A	120A

GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage		360/500VDC	
Start-up Voltage / Initial Feeding Voltage		60VDC/90VDC	
MPPT Voltage Range		60~450VDC	
Maximum Input Current		1/18A	1/22A
GRID OUTPUT (AC)			
Nominal Output Voltage		220/230/240VAC	
Output Voltage Range		195.5~253VAC	
Nominal Output Current		15.7A	27.0A
Power Factor		>0.99	
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)		98%	
TWO LOAD OUTPUT POWER			
Full Load	3600W	4200W	6200W
Maxium Main Load	3600W	4200W	6200W
Maxium Second Load(battery mode)	1200W	1400W	2067W
Maxium Load Cut Off Voltage	26VDC	26VDC	52VDC
Maxium Load Return Voltage	27VDC	27VDC	54VDC
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage		120-140VAC/180VAC	
Acceptable Input Voltage Range		90-280VAC or 170-280VAC	
Frequency Range		49~51±1HZ	
Maximum AC Input Current		30A	40A
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage		360/500VDC	
MPPT Voltage Range		60~450VDC	
Maximum Input Current		1/18A	1/22A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage		220/230/240VAC	
Output Waveform		Pure sine wave	
Efficiency (DC to AC)		94%	
BATTERY & CHARGER			
Nominal DC Voltage		24VDC	48VDC
Maximum Solar Charging Current		120A	120A
Maximum AC Charging Current		100A	100A
Maximum Solar+AC Charging Current		120A	120A
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage		360/500VDC	
Start-up Voltage / Initial Feeding Voltage		90VDC/120VDC	
MPPT Voltage Range		60~450VDC	
Maximum Input Current		1/18A	1/22A
GRID OUTPUT (AC)			
Nominal Output Voltage		220/230/240VAC	
Output Voltage Range		195.5~253VAC	
Nominal Output Current		15.7A	27.0A
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage		120-140VAC/180VAC	
Acceptable Input Voltage Range		90-280VAC or 170-280VAC	
Maximum AC Input Current		30A	40A
Maximum AC Charging Current		100A	
GENERAL			
PHYSICAL			
Dimension,D*W*H(mm)		420*350*110	
Cartoon Dimension,D *W *H(mm)		500*415*180	
Net Weight (kgs)		8.0	8.9
Gross Weight(kgs)		9.0	10.0
INTERACE			
Communication Port		RS232/RS485/WIFI/GPRS/LITHIUM BATTERY	
ENVIRONMENT			
Humidity		5% to 95% Relative Humidity(Non~condensing)	
Operating Temperature		-10°C~50°C	
STANDARD			
Compliance Safety		CE	



Home Energy Storage

HYBRID INVERTER

AJ0060G-SPM-EU

FEATURES



COLORFUL TOUCH LCD, IP65 PROTECTION DEGREE



AC COUPLE TO RETROFIT EXISTING SOLAR SYSTEM



MAX. 16 PCS PARALLEL FOR ON-GRID AND OFF-GRID OPERATION; SUPPORT MULTIPLE BATTERIES PARALLEL



MAX. CHARGING/DISCHARGING CURRENT OF 135A



6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING



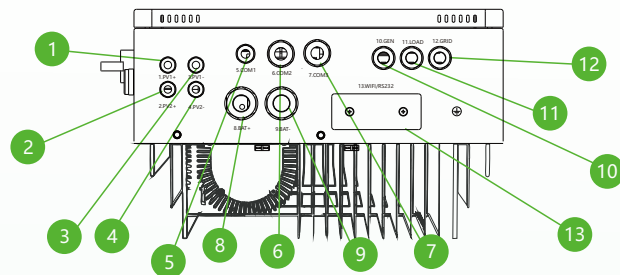
SUPPORT STORING ENERGY FROM DIESEL GENERATOR



CERTIFICATIONS

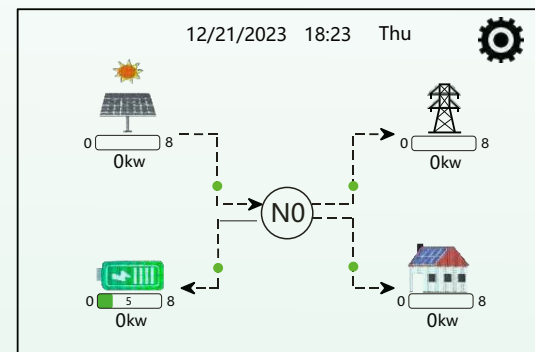


PRODUCT CHARACTERISTICS

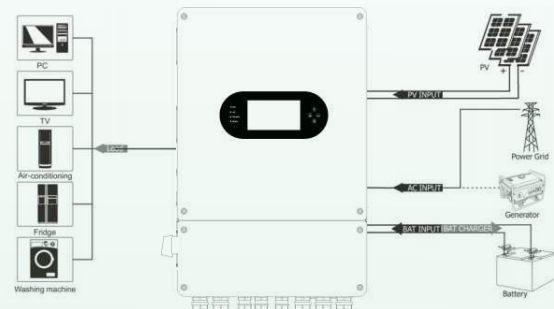


- 1.PV1+ 3.PV1- 5.COM1 7.COM3 9.BAT- 11.LOAD
2.PV2+ 4.PV2- 6.COM2 8.BAT+ 10.GEN 12.GRID
13.WIFI

LCD DISPLAY ICONS



BASIC SYSTEM ARCHITECTURE



Data sheet

Model	PD0060G-SPM-EU
PV String Input Data	
Max. DC Input Power (W)	7800
Rated PV Input Voltage (V)	370 (125~500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150~430
Full Load MPPT Voltage Range (V)	300~430
Max. DC Input Current(A)	20+20
Max. DC Short Circuit Current(A)	22+22
No.of MPPT Trackers	2
No.of Strings per MPPT Tracker	1+1
AC Output Data	
Rated AC Output Power (W)	6000
Max AC Output Power (W)	6600
AC Output Rated Current (A)	27.3
Max AC Output Current (A)	30
Max.Continuous AC Passthrough (A)	40
Peak Power (o ffgid)	2 tims of rated power, 10 S
Power Factor	0.8 leading - 0.8 lagging
AC Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac
Grid Type	Single Phase
Total Harmonic Distortion (THDi)	<3% (of nominal power)
DC Current Injection	<0.5% (Rated Current)
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	135
Max. Discharging Current (A)	135
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Eff ciency	
Max. Eff ciency	97.60%
Euro Eff ciency	96.50%
MPPT Efficiency	99.90%
Protection	
Anti-islanding Protection	Yes
PV String Input Reverse Polarity Protection	Yes
Insulation Resistor Detection	Yes
Residual Current Monitoring Unit	Yes
Output Over Current Protection	Yes
Output Shorted Protection	Yes
Surge Protection	DC Type II/AC Type III
Over Voltage Protection	Yes
Certif cations and Standards	
Grid Regulation	IEC61727/EN50549-1
Safety EMC / Standard	IEC/EN 61000-6/2/4, IEC/EN 62109-1 IEC/EN 62109-2
General Data	
Operating Temperature Range (°C)	-40~60°C, >45°C Derating
Cooling	Smart Cooling
Noise (dB)	≤50 dB
Communication with BMS	RS485; CAN
Monitoring mode	WIFI, APP
Weight (kg)	24
Size (W x H x D mm)	580x330x252mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years (10Years Optional)



Home Energy Storage

THREE PHASE HYBRID INVERTER

AJ006/08/10/120G-TPM-EU

FEATURES

- 

100% THREE-PHASE UNBALANCED OUTPUT, WITH EACH PHASE CAPABLE OF DELIVERING UP TO 50% OF THE RATED POWER
- 

AC COUPLE TO RETROFIT EXISTING SOLAR SYSTEM
- 

MAX. 10 PCS PARALLEL FOR ON-GRID AND OFF-GRID OPERATION; SUPPORT MULTIPLE BATTERIES PARALLEL
- 

MAX. CHARGING/DISCHARGING CURRENT OF 240A
- 

48V LOW VOLTAGE BATTERY, TRANSFORMER ISOLATION DESIGN
- 

6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING
- 

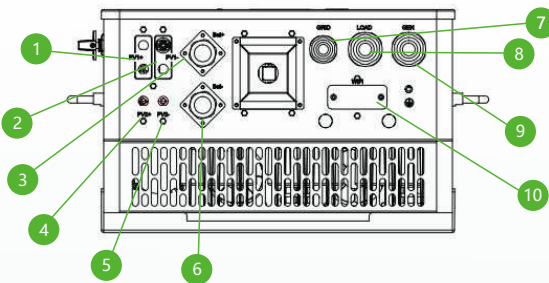
SUPPORT STORING ENERGY FROM DIESEL GENERATOR



CERTIFICATIONS

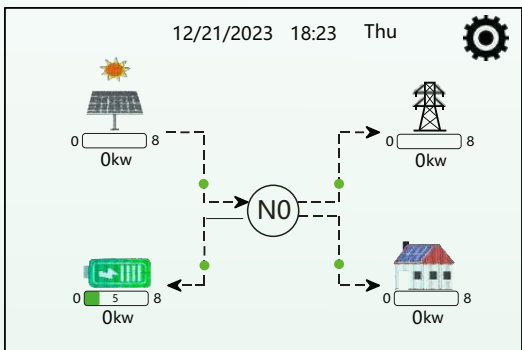


PRODUCT CHARACTERISTICS

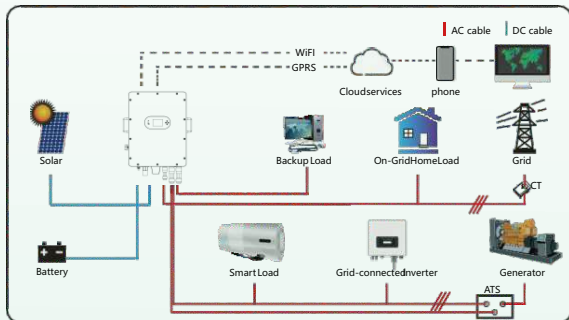


- 1.PV1+ 3.Bat+ 5.PV2- 7.Grid 9.Gen1
- 2.PV1- 4.PV2+ 6.Bat- 8.LOAD 10.WiFi Interface

LCD DISPLAY ICONS



BASIC SYSTEM ARCHITECTURE



Data sheet

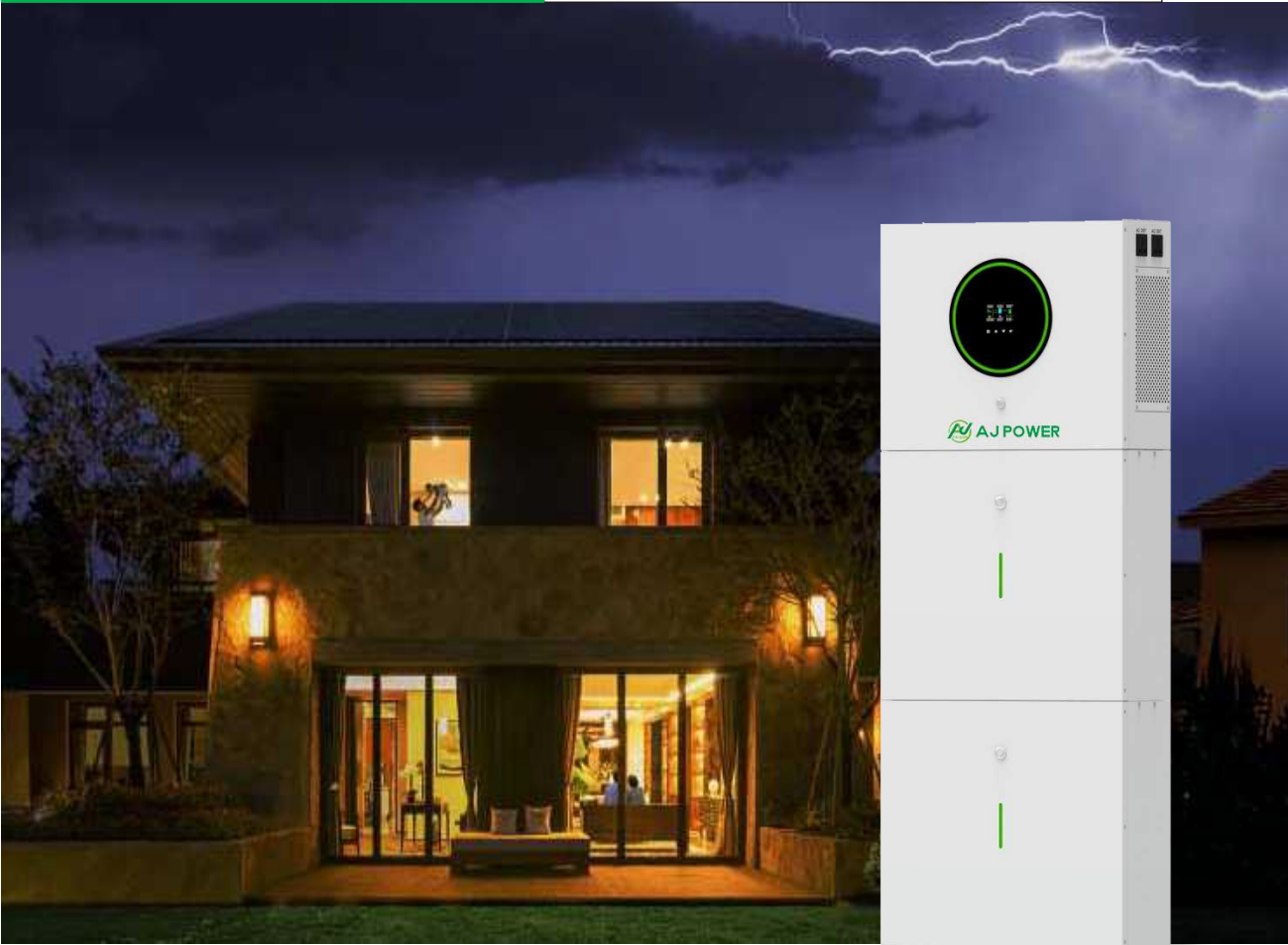
Model	PD0060G-TPM-EU	PD0080G-TPM-EU	PD0100G-TPM-EU	PD0120G-TPM-EU
PV String Input				
Max. DC Input Power (W)	7800	10400	13000	15600
Rated PV Input Voltage (V)	550 (160-800)			
Start-up Voltage (V)	160			
MPPT Voltage Range (V)	200-650			
Full Load MPPT Voltage Range (V)	350-650			
Max. DC Input Current(A)	13+13		26+13	
Max. DC Short Circuit Current(A)	17+17		34+17	
No.of MPPT Trackers	2			
No.of Strings per MPPT Tracker	1+1		2+1	
AC Output				
Rated A C Output Power (W)	6000	8000	10000	12000
Max A C Output Power (W)	6600	8800	11000	13200
AC Output Rated Current (A)	9.1	12.1	16.7	18.2
Max A C Output Current (A)	10	13.4	18.4	20
Max Output short cir cuit current (A)	75			
Max. Continuous AC Passthrough(A)	45			
Peak Power (off grid)	2 times of rated power, 10 S			
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac			
Grid Type	Three Phase			
Total Harmonic Distortion (THDi)	<3% (of nominal power)			
DC Current Injection	<0.5% In			
Battery				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	120	160	200	240
Max. Discharging Current (A)	120	160	200	240
External Temperature Sensor	Yes			
Charging Curve	3 Stages / Equalization			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	97.0%			
MPPT Efficiency	99.0%			
Protection				
Anti-islanding Protection	Yes			
PV String Input Reverse Polarity	Yes			
Insulation Resistor Detection	Yes			
Residual Current Monitoring Unit	Yes			
Output Over Current Protection	Yes			
Output Shorted Protection	Yes			
Output overvoltage protection	Yes			
Photovoltaic input lightning	Yes			
Surge Protection	DC Type III / AC Type III			
Over Voltage Category	DC Type II/AC Type III			
Certifications and Standards				
Grid Regulation	IEC61727/62116,EN50549-1			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
General Data				
Operating Temperature Range (°C)	-40-60°C, >45°C Derating			
Cooling	Smart Cooling			
Noise (dB)	≤ 50 dB			
Communication to BMS	RS485; CAN			
Monitoring mode	Wi-Fi +APP			
Weight (kg)	37.5			
Size (W x H x D mm)	702×422×281 (Excluding Connectors and Buckets)			
Ingress Protection	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			



Home Energy Storage

ENERGY STORAGE SYSTEM

AJ POWER-ESS SERIES



(R) INVERTER MODE **(G)** PV MODE **(B)** UTILITY MODE



»» Features

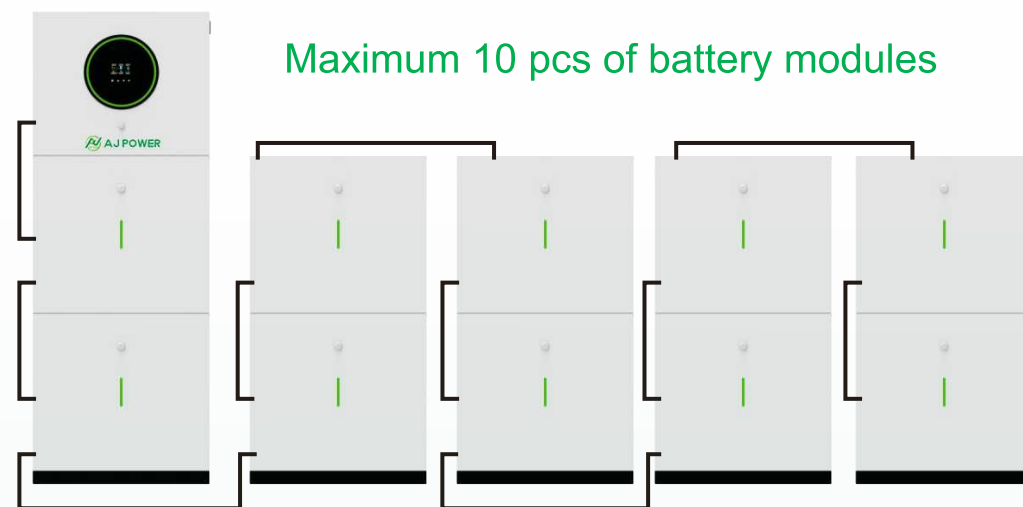
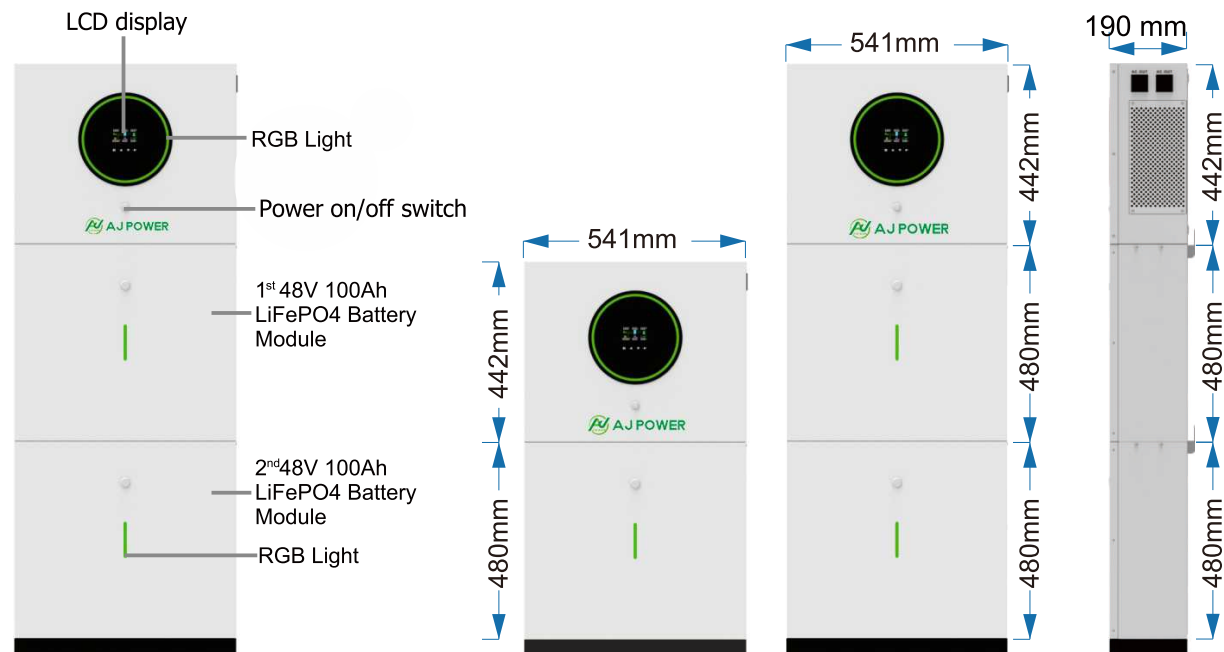
- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory settings
- Built-in lithium battery automatic activation
- Built-in anti-dust kit for harsh environment
- Built-in 140A(for 4.2KW)/120A(for 6,2KW)/160A(for 10.2KW)
- MPPT Solar charge: max 6200W(for 4,2KW), max6500(for 6.2KW), max10200W(for 10.2KW)
- High PV input voltage range(60~500VDC)
- Smart battery charge design to optimize battery life
- Dual output

»» Product Data Sheet

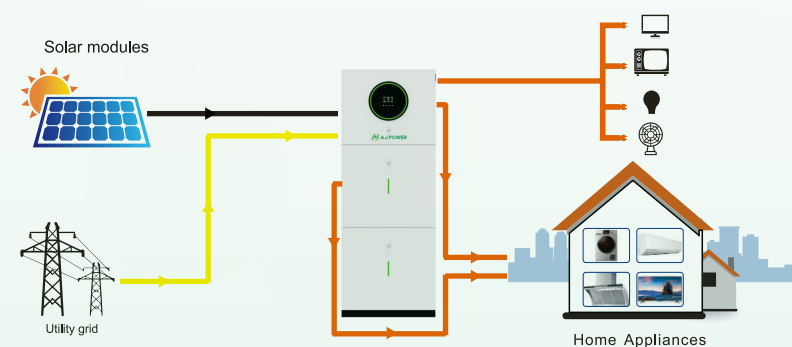
INVERTER			
MODEL	AJ-ESS-4.2KW PLUS	AJ-ESS-6.2KW PLUS	AJ-ESS-10.2KW PLUS
Phase	1-phase		
Maximum PV Input Power	6200W	6500W	5400W+5400W
Rated Output Power	4200W/4200VA	6200W/6200VA	10200W/10200VA
Maximum Solar Charging Current	140A	120A	160A

GRID-TIE OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
Start-up Voltage / Initial Feeding Voltage	60VDC/90VDC		90VDC/120VDC
MPPT Voltage Range	60~450VDC		90~450VDC
Maximum Input Current	1/18A	1/22A	2/18A
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		190~253VDC
Nominal Output Current	18.2A	27.0A	44.3A
Power Factor	>0.99		
EFFICIENCY			
Maximum Conversion Efficiency (DC/AC)	98%		
TWO LOAD OUTPUT POWER			
Full Load	4200W	6200W	10200W
Maxium Main Load	4200W	6200W	10200W
Maxium Second Load(battery mode)	1400W	2067W	3400W
Maxium Load Cut O ffVoltage	26VDC	52VDC	
Maxium Load Return Voltage	27VDC	54VDC	
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Frequency Range	49~51±1HZ		
Maximum AC Input Current	30A	40A	50A
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
MPPT Voltage Range	60~450VDC		90~450VDC
Maximum Input Current	1/18A	1/22A	2/18A
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Waveform	Pure sine wave		
Efficiency (DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	24VDC	48VDC	
Maximum Solar Charging Current	140A	120A	160A
Maximum AC Charging Current	100A	100A	140A
Maximum Solar+AC Charging Current	140A	120A	160A
HYBRID OPERATION			
PV INPUT (DC)			
Nominal DC Voltage/Maximum DC Voltage	360/500VDC		
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	60~450VDC		90~450VDC
Maximum Input Current	1/18A	1/22A	2/18A
GRID OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		190~253VDC
Nominal Output Current	18.2A	27.0A	44.3A
AC INPUT			
AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	30A	40A	50A
Maximum AC Charging Current	100A		140A
GENERAL			
PHYSICAL			
Dimension,D*W*H(mm)	541*442*190		
Cartoon Dimension,D *W *H(mm)	600*550*240		
Net Weight (kgs)	18.5	27.8	25.5
Gross Weight(kgs)	20.5	29.4	27.5
INTERACE			
Communication Port	RS232/WIFI/GPRS/LITHIUM BATTERY		
ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non~condensing)		
Operating Temperature	-10°C~50°C		
STANDARD			
Compliance Safety	CE		

Product Overview



System Diagram



BATTERY					
MODEL		25.6V100AH	25.6V200AH	48V100AH	48V200AH
Normal charging voltage		29.2V	29.2V	54.75V	54.75V
Maximum charging current		100A	100A	100A	100A
Discharge termination voltage		21.6V	21.6V	40.5V	40.5V
Recommended discharge termination voltage		22.4V	22.4V	42V	42V
Maximum discharge current		100A	100A	100A	100A
Single cell charging overvoltage protection		3.8V	3.8V	3.8V	3.8V
Overvoltage protection for the whole battery		29.2V	29.2V	54.75V	54.75V
Low voltage protection for single cell discharge		2.7V	2.7V	2.7V	2.7V
Low voltage protection for whole group discharge		21.6V	21.6V	40.5V	40.5V
Charge overcurrent protection		102~112A	102~112A	102~112A	102~112A
Discharge overcurrent protection		102~122A	102~122A	102~122A	102~122A
BMS Features	High accuracy cell level voltage, current measuring Over-charge, over-discharge protection Short-circuit protection Self-learning intelligent SOC calculation Cell level active equalization Multiple communication type Parallel connect function				
Working temperature		-15℃~+55℃			
Storage temperature		-20℃~+50℃			
Single Battery Module	Dimensions (mm)	541*480*190	541*480*190	541*480*190	541*960*190
	Weight (Kg)	27KG	54KG	54KG	110KG

RS-232 communication port / WiFi-port AC input Main output Second output PV input Battery input	AC In Switch Anti dust kit 12V DC output	Output receptacles Battery input Battery switch Rs485 Rs232
inverter module		battery module



Home Energy Storage

ENERGY STORAGE SYSTEM

AJ POWER-ESSM SERIES



INVERTER MODE



PV MODE



UTILITY MODE



Built-in Lithium battery
automatic activation



BMS protection



Integrated design



Receptacle



RGB lights



Universal wheel



Constant voltage technology
protects the circuit



Dustproof

» Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- One-key restoration to factory settings
- Built-in Lithium battery automatic activation
- Integrated design
- Built-in 120A MPPT Solar charge:
max 6200W(for 3.6KW); max 6500W(for 6.2KW)
- High PV input voltage range(60~ 500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

» Product Data Sheet

MODEL	AJ-ESSM-4.2KW PLUS-100AH/200AH		AJ-ESSM-6.2KW PLUS-100AH	
Phase				
Maximum PV Input Power	6200W		6500W	
Rated Output Power	4200W/4200VA		6200W/6200VA	
Maximum Solar Charging Current			120A	
GRID-TIE OPERATION				
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage			360/500VDC	
Start-up Voltage / Initial Feeding Voltage			60VDC/90VDC	
MPPT Voltage Range			60~450VDC	
Maximum Input Current	1/18A		1/22A	
GRID OUTPUT (AC)				
Nominal Output Voltage			220/230/240VAC	
Output Voltage Range			195.5~253VAC	
Nominal Output Current	18.2A		27.0A	
Power Factor			>0.99	
EFFICIENCY				
Maximum Conversion Efficiency (DC/AC)			98%	
TWO LOAD OUTPUT POWER				
Full Load	4200W		6200W	
Maxium Main Load	4200W		6200W	
Maxium Second Load(battery mode)	1400W		2067W	
Maxium Load Cut Off Voltage	26VDC		52VDC	
Maxium Load Return Voltage	27VDC		54VDC	
OFF-GRID OPERATION				
AC INPUT				
AC Start-up Voltage /Auto Restart Voltage			120-140VAC/180VAC	
Acceptable Input Voltage Range			90-280VAC or 170-280VAC	
Frequency Range			49~51±1HZ	
MaximumAC Input Current	30A		40A	
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage			360/500VDC	
MPPT Voltage Range			60~450VDC	
Maximum Input Current	1/18A		1/22A	
BATTERY MODE OUTPUT (AC)				
Nominal Output Voltage			220/230/240VAC	
Output Waveform			Pure sine wave	
Efficiency (DC to AC)			94%	
BATTERY & CHARGER				
Nominal DC Voltage	24VDC		48VDC	
Maximum Solar Charging Current	120A	140A	120A	
MaximumAC Charging Current	100A	100A	100A	
Maximum Solar+AC Charging Current	120A	140A	120A	
HYBRID OPERATION				
PV INPUT (DC)				
Nominal DC Voltage/Maximum DC Voltage			360/500VDC	
Start-up Voltage / Initial Feeding Voltage			90VDC/120VDC	
MPPT Voltage Range			60~450VDC	
Maximum Input Current	1/18A		1/22A	
GRID OUTPUT (AC)				
Nominal Output Voltage			220/230/240VAC	
Output Voltage Range			195.5~253VAC	
Nominal Output Current	18.2A		27.0A	
AC INPUT				
AC Start-up Voltage /Auto Restart Voltage			120-140VAC/180VAC	
Acceptable Input Voltage Range			90-280VAC or 170-280VAC	
MaximumAC Input Current	30A		40A	
MaximumAC Charging Current			100A	



MODEL	AJ-ESSM-4.2KW PLUS-100AH/200AH		AJ-ESSM-6.2KW PLUS-100AH
BATTERY			
MODEL	25.6V100AH	25.6V200AH	48V100AH
Normal charging voltage	29.2V	29.2V	54.75V
Maximum charging current	100A(Recommended)	100A/200A (Recommended 100A)	100A(Recommended)
Discharge termination voltage	20V	20V	37.5V
Recommended discharge termination voltage	22.4V	22.4V	42V
Maximum discharge current	100A	100A/200A	100A
Single cell charging overvoltage protection	3.65V	3.65V	3.65V
Overvoltage protection for the whole battery	29.2V	29.2V	54.75V
Low voltage protection for single cell discharge	2.5V	2.5V	2.5V
Low voltage protection for whole group discharge	20V	20V	37.5V
Charge overcurrent protection	110A	110A/220A	110A
Discharge overcurrent protection	110A	110A/220A	110A
BMS Features	High accuracy cell level voltage, current measuring Over-charge, over-discharge protection Short-circuit protection Self-learning intelligent SOC calculation Cell level active equalization Multiple communication type Parallel connect function		
Working temperature	-20℃~+65℃		
Storage temperature	0℃~+65℃		
GENERAL			
PHYSICAL			
Dimension,D*W*H(mm)	701*441*231		
Cartoon Dimension,D *W *H(mm)	800*530*340		
Net Weight (kgs)	42KG	59 KG	58 KG
Gross Weight(kgs)	44.7KG	61.7KG	60KG
INTERACE			
Communication Port	RS232/RS485/WIFI/GPRS		
ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non~condensing)		
STANDARD			
Compliance Safety	CE UN38.3;MSDS		

Home Energy Storage

ENERGY STORAGE SYSTEM

AJ POWER-ESSM SERIES



Built-in Lithium battery
automatic activation



BMS protection



Integrated design



Receptacle



40A MPPT



Universal wheel



Constant voltage technology
protects the circuit



Dustproof

»» Features

- Integrated design
- Pure sine wave solar inverter
- Built-in 40A MPPTsolar charger
- PV input voltage range 20~150VDC (for 1000W)
30~150VDC(for 1500W)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Meet rich customized demands
- Solar energy is provided directly to the load first

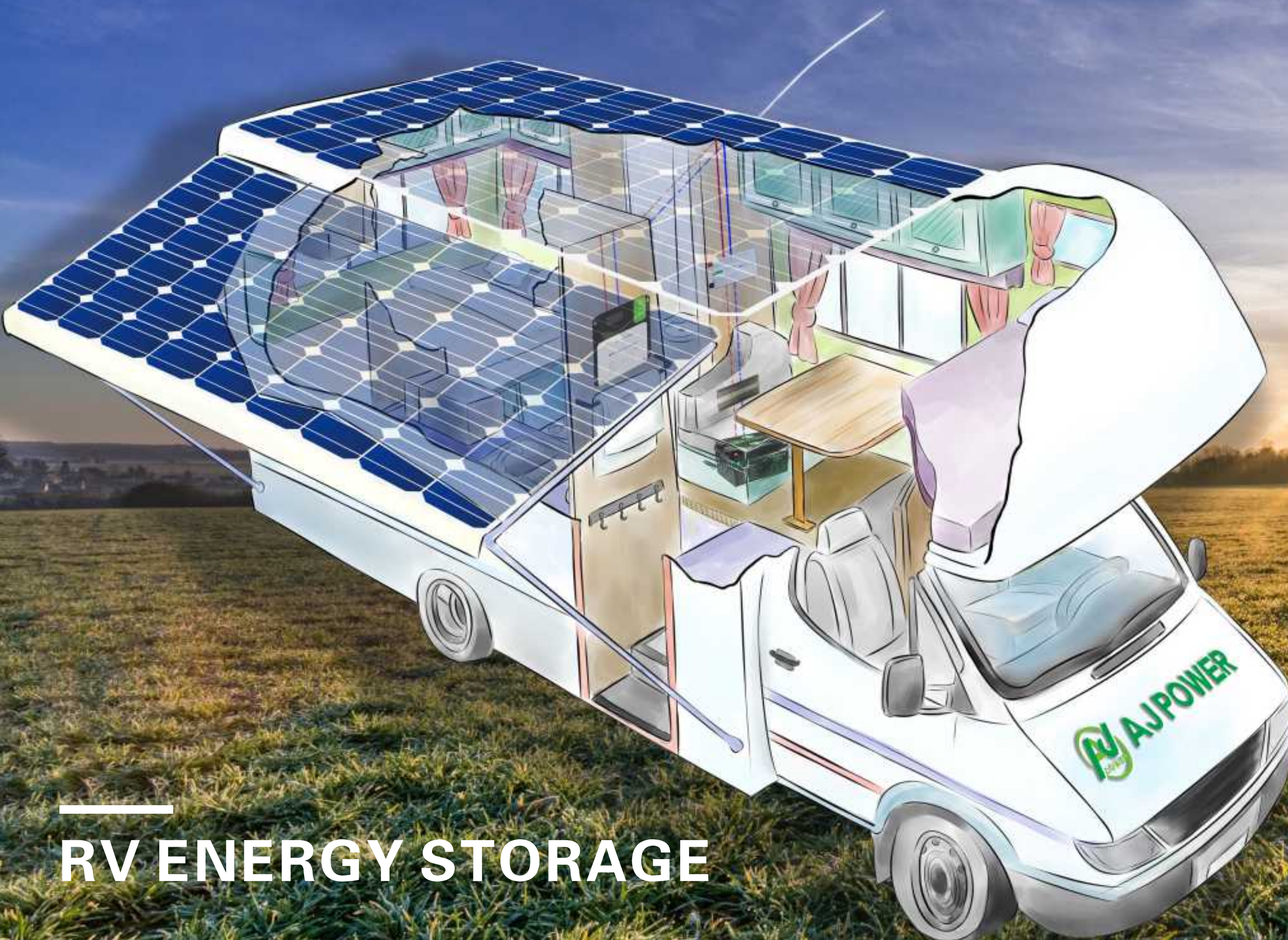


»» Product Data Sheet

Model	AJ -ESSM-1.0KW PLUS-100AH	AJ -ESSM-1.5KW PLUS-100AH
RATED POWER	1000W/1000VA	1500W/1500VA
AC Input		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC(For Personal Computers)	
	90~280VAC(For Home Appliances)	
Frequency Range	50 Hz/60Hz(Auto sensing)	
AC OUTPUT		
AC Voltage Regulation	230VAC±5%	
Surge Power	2000VA	3000VA
Efficiency(Peak)PV to INV	98%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10 ms	
BATTERY		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	32VDC
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	600W	1200W
MPPT Range @ Operating Voltage	20~150VDC	30~150VDC
Maximum PV Array Open Circuit Voltage solar	150VDC	
Maximum Solar Charge Current	40A	
Maximum AC Charge Current	40A	
Maximum Solar+AC Charging Current	80A	
BATTERY		
MODEL	12.8V100AH	25.6V100AH
Normal charging voltage	14.2V	29.2V
Maximum charging current	100A	100A
Discharge termination voltage	9.2V	20V
Recommended discharge termination voltage	10V	22.4V
Maximum discharge current	100A	100A
Single cell charging overvoltage protection	3.75V	3.65V
Overvoltage protection for the whole battery	15V	29.2V
Low voltage protection for single cell discharge	2.3V	2.5V
Low voltage protection for whole group discharge	10V	20V
Charge overcurrent protection	110A	
Discharge overcurrent protection	110A	

BMS Features	High accuracy cell level voltage, current measuring	
	Over-charge, over-discharge protection	
	Short-circuit protection	
	Self-learning intelligent SOC calculation	
	Cell level active equalization	
	Multiple communication type	
	Parallel connect function	
Working temperature	-20℃~+65℃	
Storage temperature	0℃~+65℃	
PHYSICAL		
Dimension,D*W*H(mm)	560*320*140	
Cartoon Dimension,D *W *H(mm)	570*390*230	
Net Weight(kgs)	17.3	32.3
Gross Weight(kgs)	19.2	34.5
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non~condensing)	
STANDARD		
Compliance Safety	CE UN38.3;MSDS	





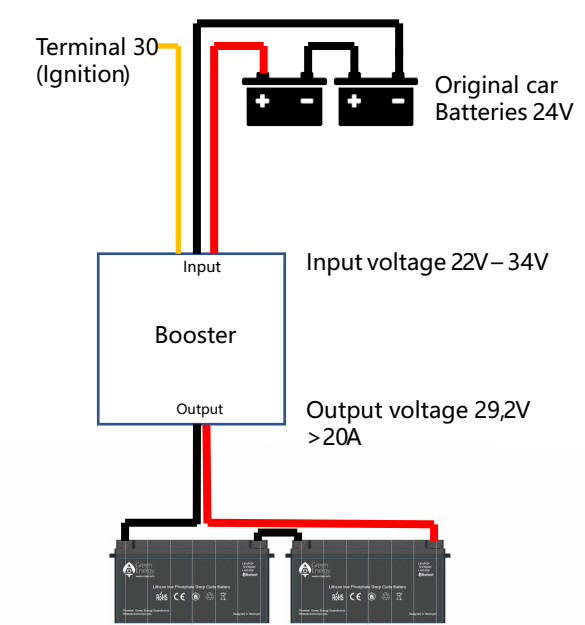
RV ENERGY STORAGE

RV ENERGY STORAGE

AJ-Booster



Booster 24V system



Model	Rated output power	Rated input voltage	Rated output voltage	Input characteristics				Output characteristics			Overcurrent Protection
				Voltage	Dual isolation	No-load consumption	Typical efficiency	Voltage	Current	Ripple voltage	
TBS1214 JL584H	584W	12V DC	29V DC	11~16V DC	Y	<0.4W	94%	29V DC	20A	<200mv	More than 20% of rated current
TBS1229 JL600E	600W	12V DC	14.6V DC	11~16V DC	Y	<0.4W	94%	14.6V DC	40A	<200mv	More than 20% of rated current
TBS1258 JL1160E	1160W	12V DC	58V DC	11~16V DC	Y	<0.4W	94%	58V DC	20A	<200mv	More than 20% of rated current
Insulation	Input-Output		Non-isolation								
	Waterproof		Fully sealed and waterproof								
	Dimensions		Size:220*130*50mm		Weight:2200g						
Others	Cooling		Natural cooling is designed for natural cooling and heat dissipation. Pay attention to ventilation and heat dissipation in high-power use.								
	Rated temperature rise		45℃								
	Reliability		>100000h								

RV ENERGY STORAGE

Battery Charger



Battery Charger								
Model	Input voltage	Rated output voltage	Output current	Loading(W)	No-load power	Efficiency	Power factor	Dimension(mm)
DC14.6V 10A	AC100~240	DC14.6	10	≤146	≤0.5	≥88%	≥0.85	178x80x46
DC14.6V 15A	AC100~240	DC14.6	15	≤219	≤0.5	≥90%	≥0.85	210x108x48.5
DC14.6V 20A	AC100~240	DC14.6	20	≤300	≤1.5	≥92%	≥0.95	232x109x64
DC29.2V 5A	AC100~240	DC14.6	20	≤170	≤0.5	≥89%	≥0.88	178x80x46
DC29V 10A	AC100~240	DC14.6	20	≤350	≤0.7	≥90%	≥0.85	210x108x48.5
DC58.4V 5A	AC100~240	DC58.4	5	≤350	≤0.7	≥90%	≥0.85	210x108x48.5
DC58.4V 9.5A	AC100~240	DC58.4	9.5	≤610	≤2	≥91%	≥0.95	268x135x64



RV ENERGY STORAGE



AJ-Pure Sine Wave Inverter

Model	Output				Input					Packing	
	Rated power (W)	Peak power (W)	AC voltage (V)	Frequency (adjustable) (Hz)	Battery voltage (V)	Voltage range (V)	No load current (A)	Standby current (mA)	DC current (A)	Size (L*W*H) (mm)	Weight (kg)
AJ1000S-12V	1000	2000	220 240	50 or 60	12	9-17	1.2	15	96	357*172*78	2.82
AJ2000S-12V	2000	4000	220 240	50 or 60	12	9-17	1.5	15	194	420*209*110	5.01
AJ3000S-12V	3000	6000	220 240	50 or 60	12	9-17	2		291	517*209*110	6.64
AJ1000S-24V	1000	2000	220 240	50 or 60	24	18-32	0.6	13	46	357*172*78	2.82
AJ2000S-24V	2000	4000	220 240	50 or 60	24	18-32	0.7	15	194	420*209*110	5.01
AJ3000S-12V	3000	6000	220 240	50 or 60	24	18-32		13	291	517*209*110	6.64
Battery type:lithium battery,lead acid battery,valve control battery and gel battery											
Wave form: Pure sine wave						Cooling Method: Internal fan of the machine					
Dual USB output voltage: 5V						Dual USB outputcurrent: 2.1A					
Working Humidity: 10-90%RH						Working Temperature: -20~40°C					

RV ENERGY STORAGE

MPPT Solar Charging Controller



Model	AJ2430N15	AJ2440N15	AJ2460N15	AJ4830N15
Static power consumption	≤30mA	≤40mA	≤50mA	≤50mA
System Voltage	12V/24V	12V/24V	12V/24V	12V/24V/36V/48V
Battery's operating voltage range	8V-32V	8V-32V	8V-32V	8V-64V
Rated Charging Current	30A	40A	60A	30A
Maximum PV Input Current	27A	35A	53A	27A
Maximum solapanel power	400W/12V 800W/24V	520W/12V 1040W/24V	800W/12V 1600W/24V	400W/12V 800W/24V 1200W/36V 1600W/48V
Maximum Py Open-circuit Voltage	150V			
Battery type	USE/FLD/GEL/LI/SLD(Default)			
MPPT Operating Voltage PointRange	(Battery Voltage +2)~110V			
Rated load current	30A	40A	40A	30A
Size/Weight	260*216*83.2mm/2.3kg		260*216*98.5mm/3.5kg	
Operating ambient temperature range	-35℃~65℃ (no derating within 45℃ if well ventilated)			



RV ENERGY STORAGE

A Reliable Power Solution Provider

Lithium Iron phosphate (LiFePO₄) Battery

AJ-LFP12.8V100AH

Features

- ◆ Using the technology of lithium iron phosphate cell, superior safety, thousands of cycles, 100%DOD, under normal conditions
- ◆ Built-in automatic protection for over-charge, over discharge, over current and over temperature
- ◆ Bluetooth monitor
- ◆ Maintenance free
- ◆ Internal cell balancing
- ◆ Lighter weight: About 40% ~50% of the weight of a comparable lead acid battery.



Model	V	Ah	Dimension(mm)			Terminal	Weight kg	Discharge current(A)		Serial connection	Bluetooth	LCD	Heating
			L	W	H			continuous	pulse/5S				
E12-6	12.8	6	90	70	107	F2	0.6	40	120	Y	N	N	N
E12-12	12.8	12	151	65	100	F2	1.3	30	90	Y	N	N	N
E12-18	12.8	12	182	78	170	M5	3	50	150	Y	N	N	N
E12-30	12.8	28	166	175	125	M5	4.2	100	300	P	N	P	N
E12-54	12.8	40	195	133	171	M6	5.8	100	400	P	N	P	N
E12-100	12.8	100	306	169	215	M8	11.5	100	600	P	N	P	P
E12-120	12.8	120	330	171	215	M8	12.5	100	600	P	N	P	P
E12-135	12.8	140	333	171	217	M8	16	100	600	P	N	P	P
F12-150	12.8	150	330	171	215	M8	16	100	600	P	N	P	P
E12-200	12.8	200	522	238	223	M8	19.5	100	600	P	N	P	P
E12-300	12.8	300	522	238	223	M8	27	100	600	P	N	P	P
S12-100	12.8	100	306	169	215	M8	11.5	100	600	Y	P	Y	P
S12-100A	12.8	100	330	171	215	M8	11.5	100	600	Y	P	Y	P
S12-100B	12.8	100	395	110	293	M8	10.5	100	600	Y	P	Y	P
S12-120	12.8	120	330	171	215	M8	12.5	100	600	Y	P	Y	P
S12-150	12.8	150	330	171	220	M8	16	100	600	Y	P	Y	P
S12-200	12.8	200	522	238	223	M8	19.5	200	1000	Y	P	Y	P
S12-300	12.8	300	522	238	223	M8	27	200	1000	Y	P	Y	P
SH24-100	25.6	100	522	238	223	M8	21.5	100	600	Y	Y	P	P
SH24-100	25.6	200	522	238	223	M8	37	200	1000	Y	P	P	P
SH24-100	51.2	100	522	238	223	M8	37	100	600	Y	P	P	P

NP12-200Ah 12V200Ah



Features

- There are fully automated production lines using the most advanced technology, And a complete production management process. Reduce costs and better control delivery to meet customer requirements.
- Complete production line quality is our core principle. Automated manufacturing Equipment for R&D laboratories, battery construction injection molding and ABS injection Optimization, materials research cell efficiency, productivity of automated QA QC equipment.

Battery Model	Voltage (V)	Capacity	Dimensions				Weight (KG)	Terminal		Terminal type
			L	W	H	TH		Size	Location	
AJ4-12	12	4	90	70	101	105	1.41	T2	C	L
AJ7-12	12	7	151	65	94	99	2.0	T2	F	L
AJ9-12	12	9	151	65	94	99	2.48	T2	F	L
AJ12-12	12	12	152	99	94	99.5	3.35	T2	F	L
AJ17-12	12	17	181	77	167	167	4.9	T3	D	L
AJ20-12	12	20	181	77	167	167	5.1	T3	D	L
AJ24-12	12	24	165	126	175	182	7.4	T6	D	L/O
AJ33-12	12	33	195	130	155	179	9.1	T6	D	L/O
AJ38-12	12	38	196	165	175	182	11.8	T6	D	L/O
AJ55-12	12	55	231	139	210	217	15.2	T17	D	L/O
AJ65-12	12	65	347	167	168	176	18.2	T17	D	L/O
AJ70-12	12	70	260	169	210	214	21	T17	D	L/O
AJ100-12	12	100	406	174	208	233	27.6	T19	D	L/O
AJ120-12	12	120	406	174	208	233	32.3	T19	D	L/O
AJ150-12	12	150	483	170	240	240	40.6	T20	C	L/O
AJ200-12	12	200	522	240	219	244	55	T20	E	L/O
AJ250-12	12	250	522	268	218	226	66.5	T20	E	L/O
Notice	1. The standard capacity (10 hours rate) is the average value measured at 25°C and can be achieved by charging and discharging cycles within 3 times.									
	2. Total height refers to the height including battery terminals									
	3. The "L" type terminal indicates that the battery terminal is rectangular, and the "O" type terminal indicates that the battery terminal is cylindrical.									



POWER BANK



Model	Battery Capacity	Size(mm)			Weight kg	Input	Output	AC Output	Output Wave
		L	W	H					
AJPB 28	174000mAh (626Wh)	260	202	173	5	DC 19V 65W PD 60W 12-24V 12-24V (Solar charging)	DC12V/12A*1 DC 12V/12A*2; USB5V/2.4A*3 QC3.0*1 USB-C PD60W*1	110V/60Hz 20V/50Hz	600W sine wave
AJPB 29	440000mAh (1408Wh)	360	270	280	17.5	DC 12-30V 200W support car charging Support two 100W solar panels	USB-C PD100W*2 USB-A*3 12V Jump Start Car charger plug 12W LED	110V/60Hz Or 220V/50Hz	1800W or 2200W Sine wave
AJPB 61	440000mAh (1280Wh)	360	270	280	16.8	DC 12-30V 200W support car charging Support two 100W solar panels	USB-C PD100W*2 USB-A*3 12V Jump Start Car charger plug 12W LED	110V/60Hz Or 220V/50Hz	1000W Sine wave
AJPB 62	440000mAh (1408Wh)	360	270	280	16.8	DC 12-30V 200W support car charging solar charging Secondary battery input	USB-CPD100W*2 USB-A*3; 12V Jump Start Car charger plug 12W LED	110V/60Hz Or 220V/50Hz	1500W Sine wave
AJPB 69	440000mAh (1408Wh)	360	270	280	17.1	DC 12-30V 200W support car charging solar charging Secondary battery input	USB-CPD100W*2 USB-A*3 12V Jump Start Car charger plug 12W LED	110V/60Hz Or 220V/50Hz	1800W Or 2200W Sine wave



RV ENERGY STORAGE



AJ-Flexible Solar Panel

Model	Max power (W)	Working Voltage (Vm)	Working Current (Im)	Open-circuit voltage (Voc)	Short-circuit current (Isc)	Module efficiency (nm)	Unfolded Size (mm)	Net weight (kg)	Max. System voltage	Max Fuse rated current
AJ95N36HS	95	19.8	4.82	23.87	5.07	17.15%	1065*520*1.4	1.4	DC1000V(TUV)	15A
AJ100N36HS	100	20.23	4.96	24.31	5.22	18.06%	1065*520*1.4	1.4	DC1000V(TUV)	15A
AJ365QHES	365	34.9	10.4	42.4	11.09	20.7%	1840*1040*2.5	5.7	DC1500V(IEC)	18A
AJ370QHES	370	35.1	10.5	42.6	11.16	21%	1840*1040*2.5	5.7	DC1500V(IEC)	18A
AJ375QHES	375	35.3	10.62	42.8	11.23	21.2%	1840*1040*2.5	5.7	DC1500V(IEC)	18A
AJ380QHES	380	35.5	10.7	43	11.3	21.5%	1840*1040*2.5	5.7	DC1500V(IEC)	18A
AJ385QHES	385	35.7	10.78	43.2	11.35	21.8%	1840*1040*2.5	5.7	DC1500V(IEC)	18A
Back material:Back board (White)					Power tolerane:0~+5W				Connector:MC4	
STC:AM=1.5,irradiance 1000W/m²,component temperature 25℃ maximum power test Tolerance±3%										
Operating temperature range:-40℃~85℃										

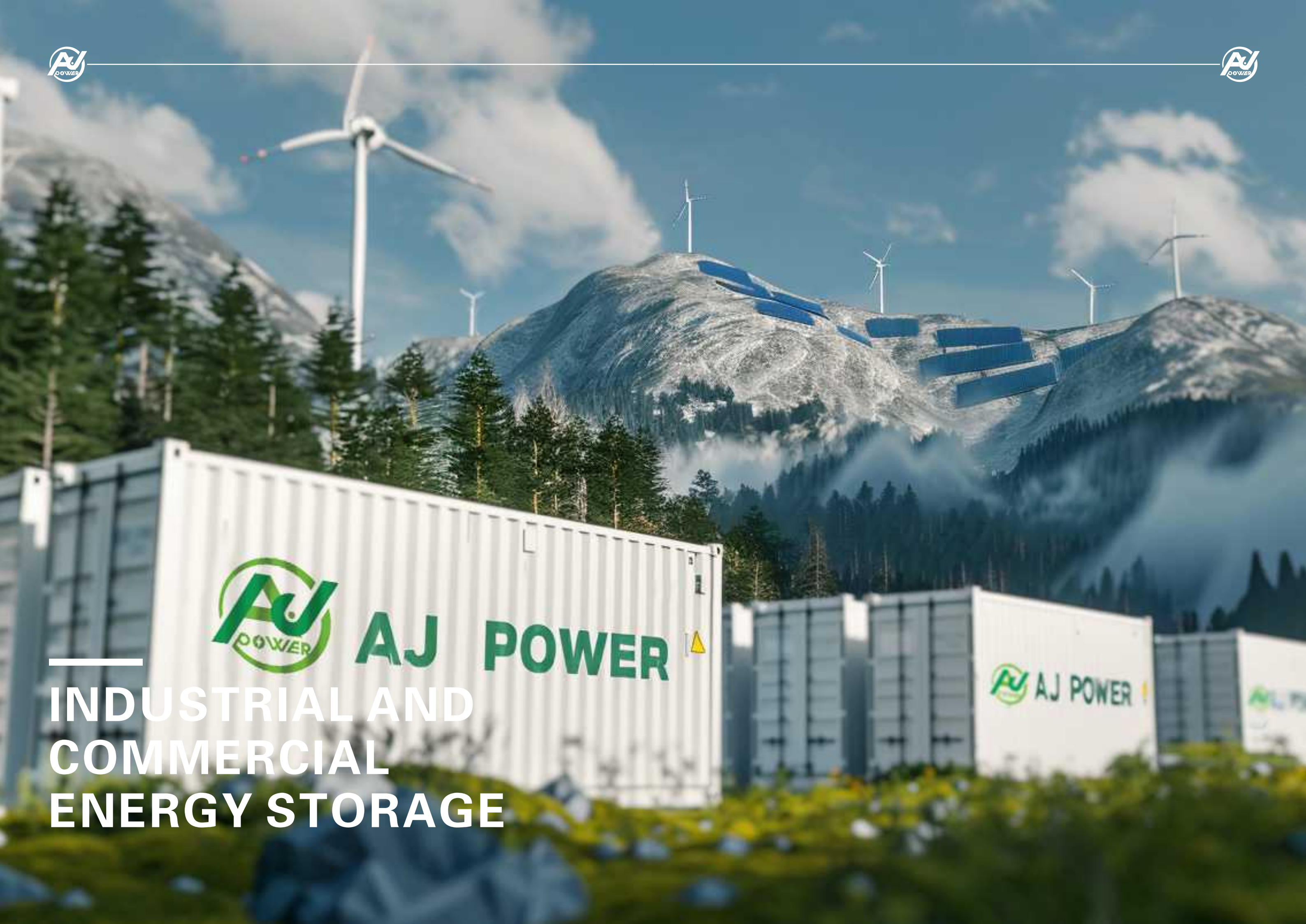


RV ENERGY STORAGE



AJ-Foldable Solar Panels

Model	power (W)	Working Voltage (Vm)	Working Current (Im)	Opencircuit voltage (Voc)	Short-circuit current (Isc)	Power tolerance (W)	Unfolded Size	Net weight	Cable specification
AJB-60W-18V 2 foldable bags	60	19	3.16	22.8	3.35	0~+3	900*520mm	1.9kg	2 M18AWG endswith 5521 heads
AJB-100W-18V 4 foldable bags	100	19	5.27	22.8	5.59	0~+5	1705*420mm	2.8kg	Customized /2M18AWG
AJB-120W - 18V 4 foldable bags	120	19	6.32	22.8	6.7	0~+5	1740*520mm	3.6kg	Customized /2M16AWG
AJY-60W -18V 4 foldable bags	60	19	3.16	22.8	3.35	0~+3	888*520mm	2.6kg	2M 18AWG double ends with 5521 heads
AJY-100W-18V 4 foldable bags	100	19	5.05	22.8	5.36	0~+5	1630*420mm	3.9kg	Customized/ 2M16AWG endswith 5521 heads
AJY-120W - 18V 4 foldable bags	120	19	6.32	22.8	6.7	0~+5	1480*600mm	4.3kg	2M18AWG endswith 5521 heads
AJY-200W-18V 4 foldable bags	200	19.8	10.1	23.8	10.72	0~+5	2265*645mm	8.5kg	Customized /regular 2 M 12AWG dual-core line
The back material: Waterproof cloth(Black)					Surface material:ETFE				Materials:EVA
STC:AM=1.5,irradiance of 1000W/m2,Component temperature is 25°C									
Type- C: PD3.0 60W (5V/ 9V/12V/15V/20V 3.0A)									
18W(5V3A /19V2A /12V1.5A) USB1 Output(Orange):Supported protocol:BC1.2, Apple,Samsung protocol, QC2.0 and QC3.0 DO NOT support Apple phone low voltage reboot									
Adapter:Can be customized according to the customer's request									



INDUSTRIAL AND COMMERCIAL ENERGY STORAGE



AJ POWER



AJ POWER



INDUSTRIAL AND COMMERCIAL ENERGY STORAGE

INTEGRATED CABINET ESS SOLUTIONS

ESS Solution		30kw/60kWh	50kW/100kWh	100kW/1200kWh
Battery Module	Battery cell	3.2V 102Ah	3.2V 206Ah/3.2V 135Ah	3.2V 280Ah
	PACK	1P16S*12*1	1P16S*10*1/1P16S*15*1	1P16S*14*1
	Battery rack (7 layers/rack)		2	200.704 kWh
	Battery capacity	62.6688 kWh	105.472 kWh/103.680kWh	716.8V
	Nominal voltage	614.4V	512V/768V	627.2~817.6V
General Specification	DC voltage range	537.6~700.8V	448~584V/672~876V	
	Ingress protection	IP65		
	Fire extinguishing system	Support		
	Operating temperature	-30°C~ 55°C		
	Dimension(W*D*H)	2400*1100*2450		2700*1100*2550
PV	Size of PCS	800*800*1900		1200*800*2050
	Air conditioning capacity	1kW	1kW*2	3kW
	Connectable PV capacity	60/120 kWp		120/180/240 kWp
	Number of PV modules	96	192	384
	Combiner Box Components	16		
	Combiner box model	6 in 1 out	12 in 1 out	24 in 1 out
	Number of combiner boxes	1		



INDUSTRIAL AND COMMERCIAL ENERGY STORAGE

10FT CONTAINER ESS SOLUTIONS

250kW/500kWh ESS Solution

Battery cell		3.2V 206Ah
PACK		1P16S*12*4
Battery Module	Battery rack (7 layers/rack)	8
	Battery capacity	506.2656 kWh
	Nominal voltage	614.4V
	DC voltage range	537.6~700.8V
General Specification	Ingress protection	IP65
	Fire extinguishing system	Support
	Operating temperature	-30°C~ 55°C
	Dimension(W*D*H)	2991*2438*2591mm(10ft)
	Size of PCS	600*720*2050+1200*800*2050
	Air conditioning capacity	7.5kW
PV	Connectable PV capacity	300/360 kwp
	Number of PV modules	576(600Wp)
	Combiner Box Components	16
	Combiner box model	18 in 1 out
	Number of combiner boxes	2

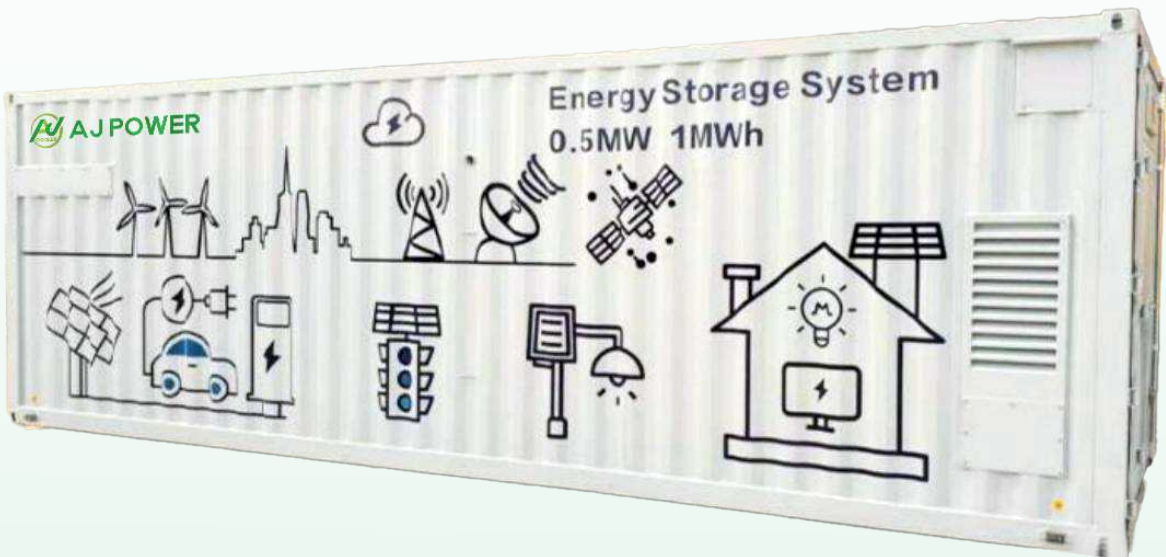


INDUSTRIAL AND COMMERCIAL ENERGY STORAGE

INDUSTRIAL AND COMMERCIAL ESS SOLUTIONS

500KW /1MWH ESS Solution

Battery Module	Battery cell	3.2V 280Ah
	PACK	1P224S*5
	Battery rack (7 layers/rack)	11
	Battery capacity	1003.52 kWh
	Nominal voltage	716.8V
General Specification	DC voltage range	627.2~817.6V
	Ingress protection	IP65
	Fire extinguishing system	Support
	Operating temperature	t-30°C~ 55°C
	Dimension(W*D*H)	20ft
PV	Size of PCS	(600*720*2050)*2+1600*1050*2050
	Air conditioning capacity	7.5kW*2
	Connectable PV capacity	600/660/720 kWp
	Number of PV modules	1152
	Combiner Box Components	16
	Combiner box model	24 in 1 out
	Number of combiner boxes	3



INDUSTRIAL AND COMMERCIAL ENERGY STORAGE



1MW /2MWH ESS Solution

Battery Module	Battery cell	3.2V 280Ah
	PACK	1P224S*10
	Battery rack (7 layers/rack)	22
	Battery capacity	2000.7 kWh
	Nominal voltage	716.8V
General Specification	DC voltage range	593.6~817.6V
	Ingress protection	IP65
	Fire extinguishing system	Support
	Operating temperature	-30°C~ 55°C
	Dimension(W*D*H)	40ft
PV	Size of PCS	(600*720*2050)*3+1600*1050*2050
	Air conditioning capacity	7.5kW*3
	Connectable PV capacity	600/660/1720 kWp
	Number of PV modules	2304
	Combiner Box Components	16
	Combiner box model	24 in 1 out
	Number of combiner boxes	4



The all-in-one Box Solution

Experiencing the comprehensive packaging design meets ISPM15,
Ensures your solar kits undamaged on delivery
and ready for installation on arrival.

**BALCONY
PHOTOVOLTAIC**



BALCONY PHOTOVOLTAIC

Standard Configuration



Lightweight (6.4kg)

4 x 200W PV Module



Micro inverter



33 x fixed cable ties



1 x unlocking tool for MC4 connectors

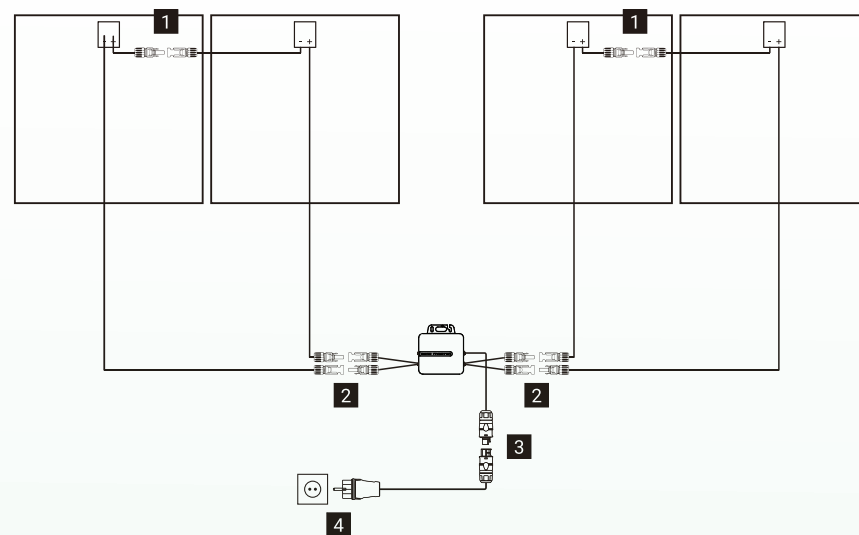


AC End Cable (5m)

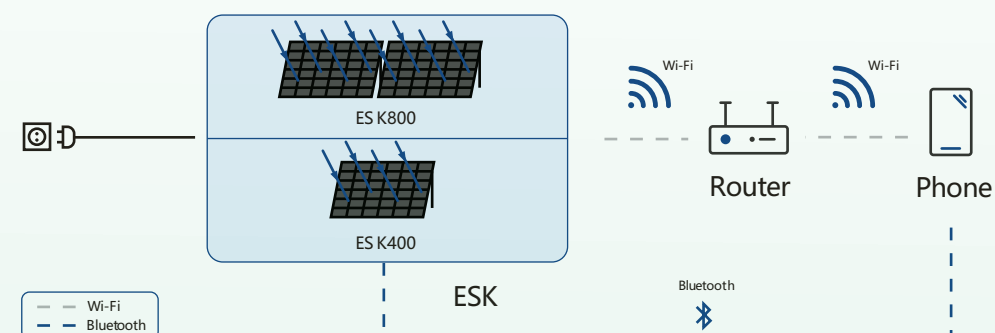


DC Cable (2m, Only for ESK800)

Connection diagram



System Diagram



BALCONY SOLAR SYSTEM KIT

QN-800W (V)
QN-800W (V)



Applicable for Sleek Design and Seamless Integration with the Balcony



Lightweight



Highly Waterproof



Wind-resistant



Plug & Play



All-in-one Design



Easier Installation



Built-in WiFi,
APP Remote Monitoring



Output Power 400W/800W
Can be Adjusted According to
Local Regulations



Micro inverter- Technical Specifications

QN-600W-2T
QN-800W-2T
QN-1000W-2T

-  IP67 protection degree, 10 years warranty
-  Zigbee or WIFI communication
-  Support reactive power compensation
-  2 MPPT trackers, module level monitoring
-  Rapid shutdown function

Merkmale

01 Easy installation, just plug in and get started

02 With reactive power control, compliant with VDE-AR-N 4105: 2018 and EN 50549-1: 2019

03 Integrated mains protection relay

04 High reliability, IP67 housing, 6000V surge protection

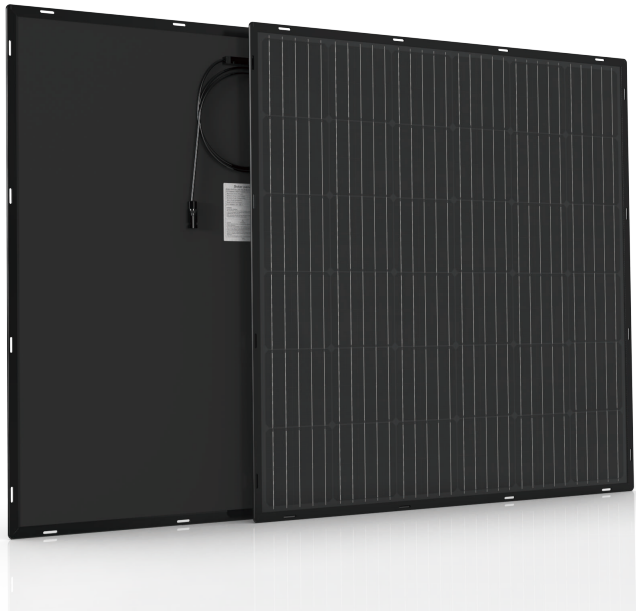
Technical Specifications

Model	QN-600W-2T		QN-800W-2T		QN-1000W	
Input Data (DC)						
Commonly used module power (W)	210~450W (2 Pieces)		210~550W+ (2 Pieces)		210~550W+(2 Pieces)	
Maximum input voltage (V)	60V					
MPPT voltage range (V)	25~55V					
Start-up voltage (V)	25V					
Maximum input current (A)	2×13A					
Maximum input short circuit current (A)	2×19.5A					
Number of MPPTs	2					
Number of Inputs per MPPT	1					
Output Data (AC)						
Rated output power (VA)	600W		800W		1000W	
Rated output current (A)	2.7A	2.6A	3.6A	3.5A	4.5A	4.4A
Nominal output voltage/range (V)	220V/ 180-275V	230V/ 180-275V	220V/ 180-275V	230V/ 180-275V	220V/ 180-275V	230V/ 180-275V
Nominal frequency/range (Hz)	50/48~52Hz or 60/58~62Hz					
Power factor	>0.99					
Total harmonic distortion	< 3%					
Maximum units per 13 AWG branch ²	6		5		4	
Efficiency						
Peak ecieny	96.5%					
CEC peak ecieny	95%					
Nominal MPPT ecieny	99%					
Night power consumption (mW)	<50mW					
Mechanical Data						
Ambient temperature range)(°C	-40~65°C					
Dimensions (W × H × D mm)						
Weight (kg)						
Enclosure rating	IP67					
Cooling	Cooling Natural convection-No fans					
Features						
Communication	Built-in WiFi/Bluetooth					
Compliance	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3, EN 50549-1: 2019, VDE-AR-N 4105: 2018					
Warranty	10 years					

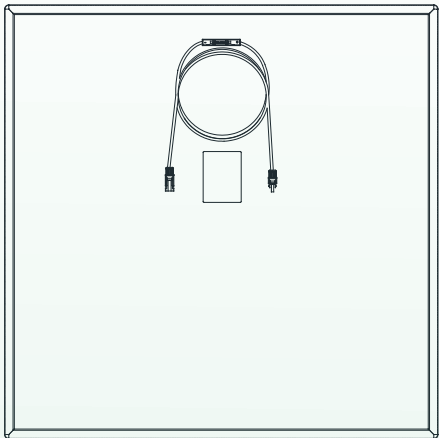
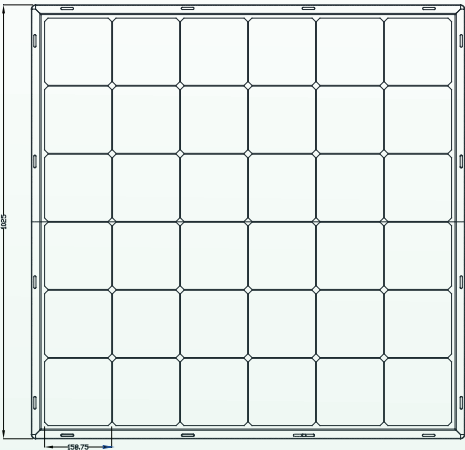
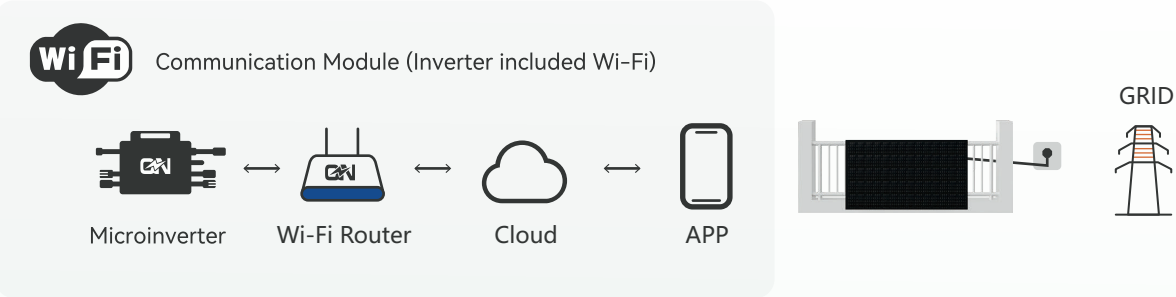


BALCONY PHOTOVOLTAIC

QW-158361M200



Monitoring Platform



Technical Data

Model	TSOL-ESK400-Air (V)	TSOL-ESK800-Air (V)
PV Module Parameter		
Module Power(Pmpp @STC)	200*2	200*4
Max. Module Efficiency	17.5%	17.5%
Temp. Coef. (Power)	-0.36%/°C	-0.36%/°C
Color	Black	Black
AC Output Parameter		
Max. System Continous Output Power (W)**	400	800
Max. Output Current (A)	2	4
Nominal Output Voltage (V)***	220/230/240	
Nominal Frequency (Hz)***	50/60	
Power Factor	>0.99	
Output Current Harmonic Distortion	<3%	
Length of AC End Cable***	5m (10m, 15m optional)	
Certification		
Solar Module	CE,TUV,UL,CQC,IEC 61215,IEC 61730	
Microinverter	CE-LVD,CE-EMC,CE-RED,VDE 4105,EN 50549-1	
Environmental Parameter		
Environmental Protection Rating	IP67	
Operating Ambient Temperature Range	-40 °C to 60 °C	
Relative Humidity	0-100%	
Max. Operating Altitude Without Derating [m]	2000	
Mechanical Parameter		
Weight [kg]	10	20
Dimensions (W×H×D mm)	2*(1270×900×2.5)	4*(1270×900×2.5)
Warranty	12 years	

* The colour , brand and power of the solar module can be customized if the PV module is compatible to ESK system.
** The output power of the system can be limited to 300W(ESK400) or 600W(ESK800).
*** The AC voltage , frequency range and plug type may vary depending on specific country grid.

Ordering Information

Model		
Balcony Air Vertical	TSOL-ESK400-Air (V)	TSUNESS ESK Balcony Air Vertical (200W Light panel*2, micro inverter MS400, end cable 5m and plug)
Balcony Air Vertical	TSOL-ESK800-Air (V)	TSUNESS ESK Balcony Air Vertical (200W Full black panel*4, micro inverter MS800, end cable 5m and plug)