



BALCONY ECONOMY

OPTICAL STORAGE INTEGRATED

SOLUTION





BALCONY ECONOMY

Suffering from the global warming and energy crisis, all over the world are developing the renewable energy. Solar is one of the easiest way to develop, no matter for residential or C&I.

Recently, the microinverter home system, a kind of on grid system, is popular in EU regions. We also call it "Balcony economy", which only require small space for installing solar panels on outside of wall or rooftop and could provide a part of power for homes to reduce electricity bills from grid.

Austa, as one of the best solar system solutions provider, we launched the all in one carton packing whole system kits which is convenient for transportation, reselling and installation. The system mainly including solar panels, microinverter, mounting bracket, AC cable.

© **SOLUTION
CONFIGURATION**



Microinverter



30&35 Clamp



Hook



Bottom Fastener



PV Panel cable



Adjustable leg



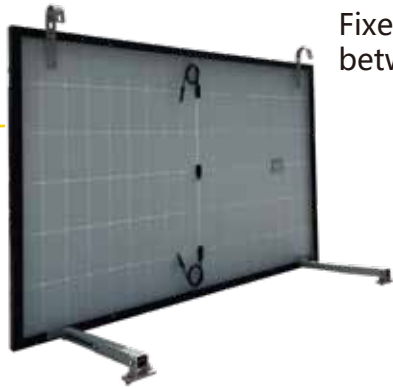
Beam



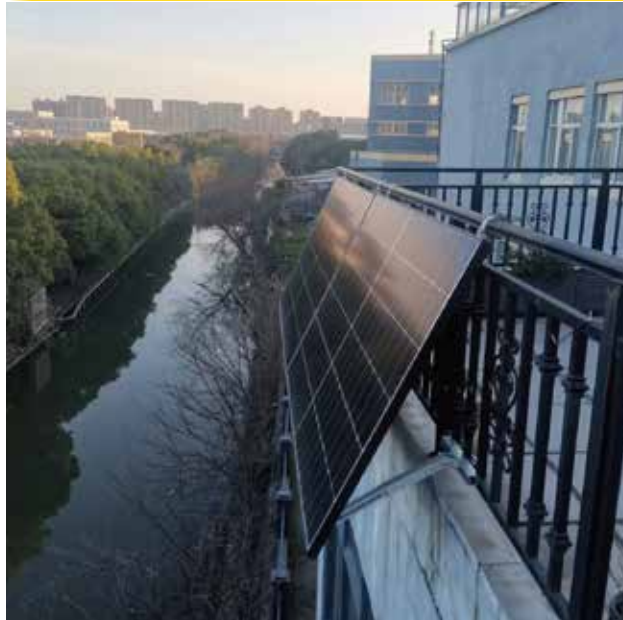
L Connector



Microinverter cable



Fixed on balcony with adjustable tilt between 0° - 30°



Balcony Hook solution

Adjustable angle range: 15° - 50°



Foor stand solution

BALCONY ECONOMY

© Microinverter



AU-IP300/4002G-230-EU



AU-IP8002G-230-EU



AU-IP10002G-230-EU



AU-IP16002G-230-EU



AU-IP20002G-230-EU



96.5%
High Efficiency



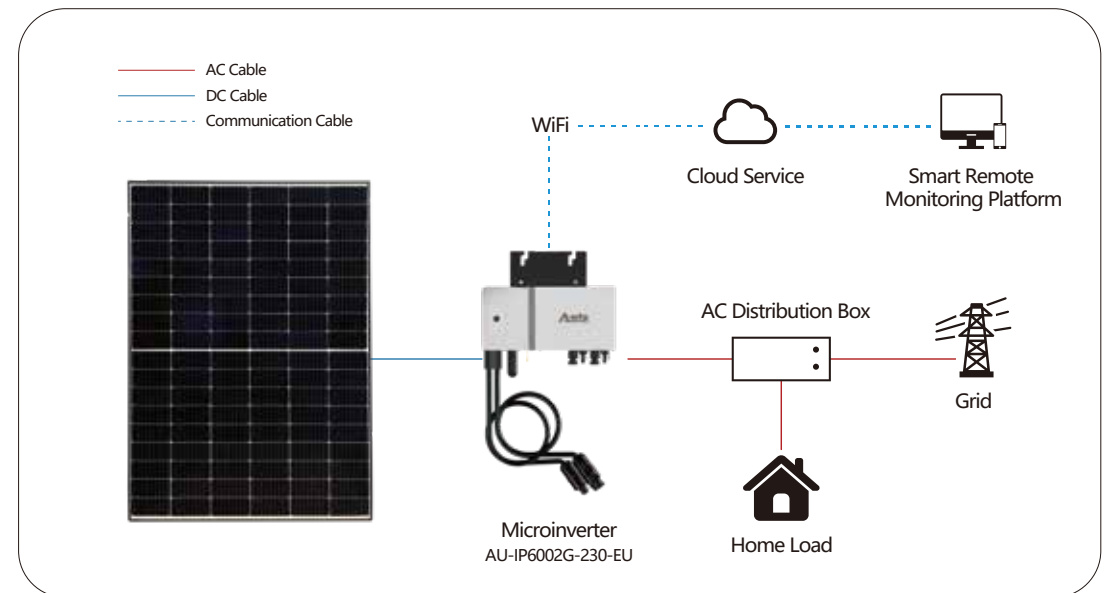
Built-in Wifi For
Remote Monitoring



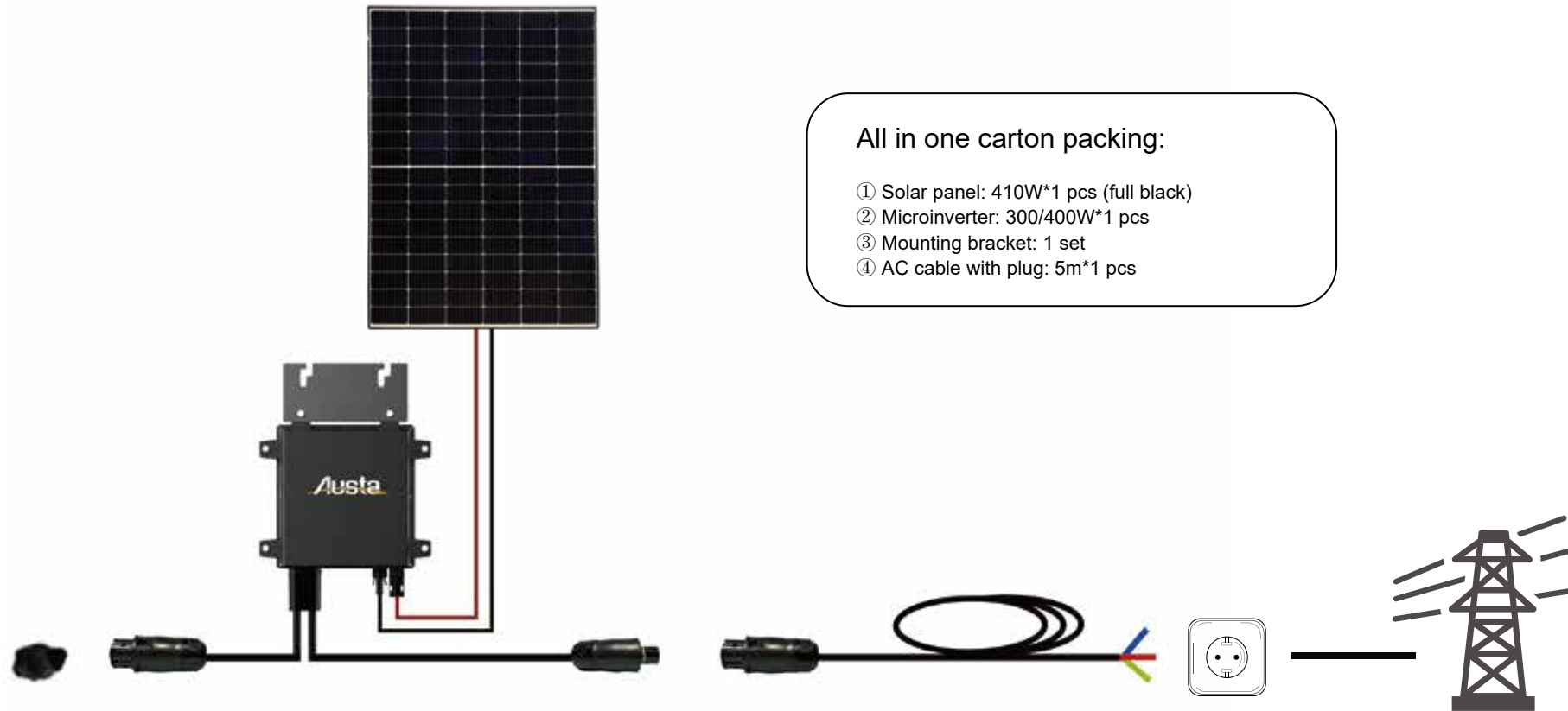
DC 60 Volts
With Surge Protection



Matching Multiple
Connection Modes



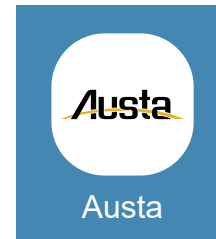
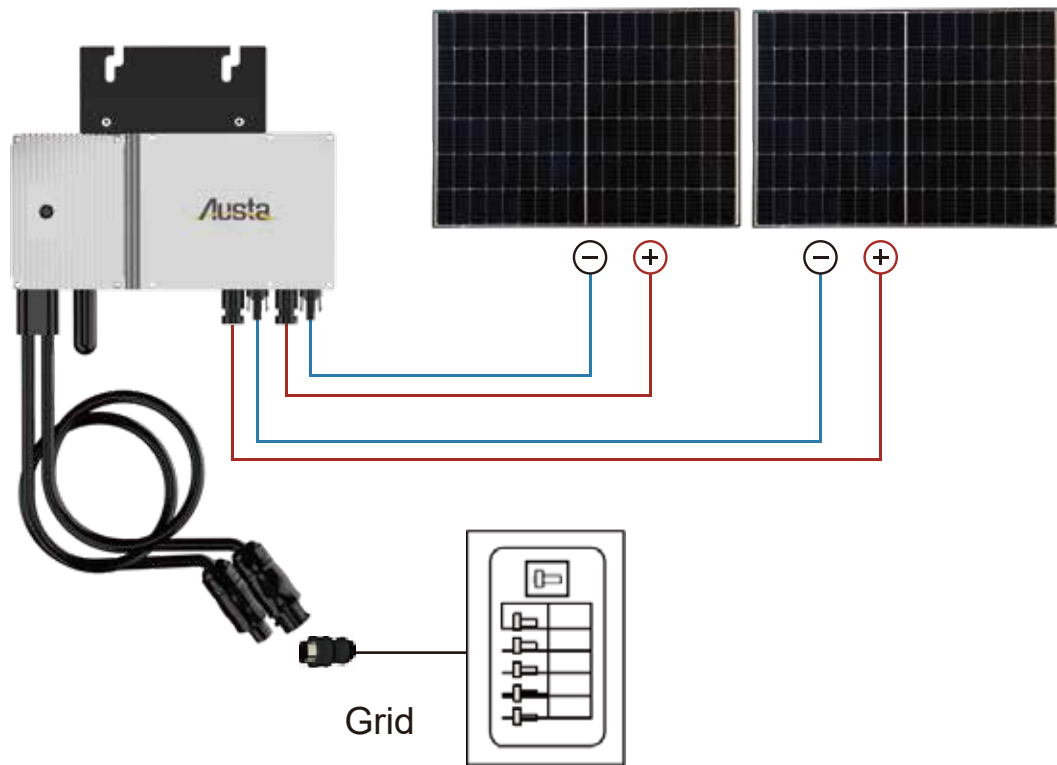
ONE MICROINVERTER + ONE PANEL SOLUTION



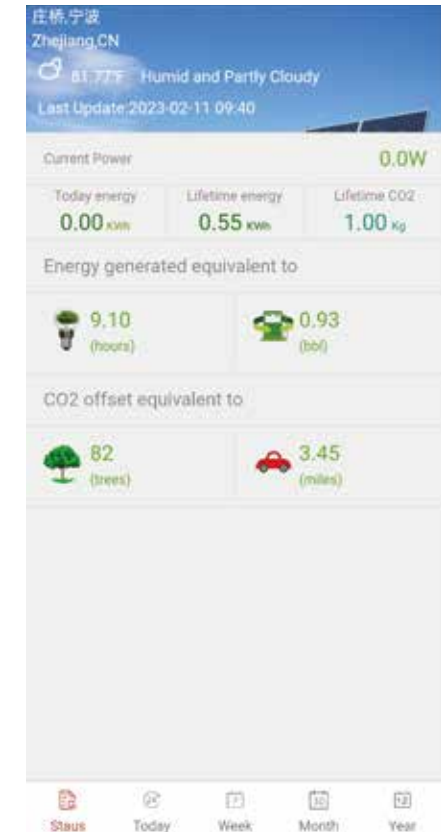
All in one carton packing:

- ① Solar panel: 410W*1 pcs (full black)
- ② Microinverter: 300/400W*1 pcs
- ③ Mounting bracket: 1 set
- ④ AC cable with plug: 5m*1 pcs

Austa Microinverter WiFi System

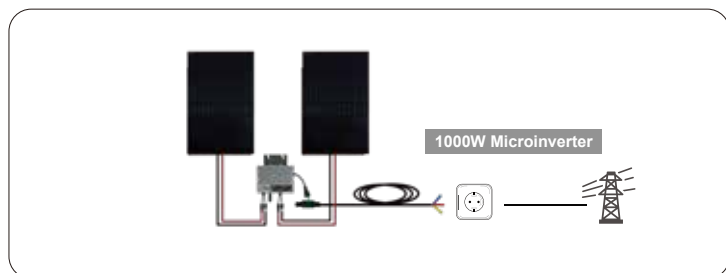
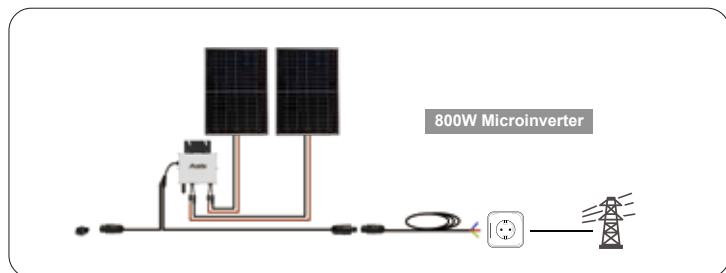
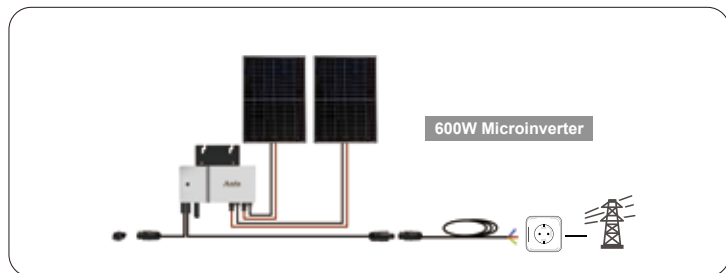


Use AUSTA APP, and register your ID with your available information



Press the inverter list, you can check Status for each inverters

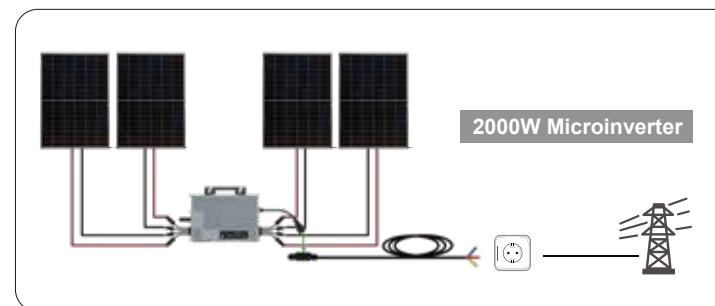
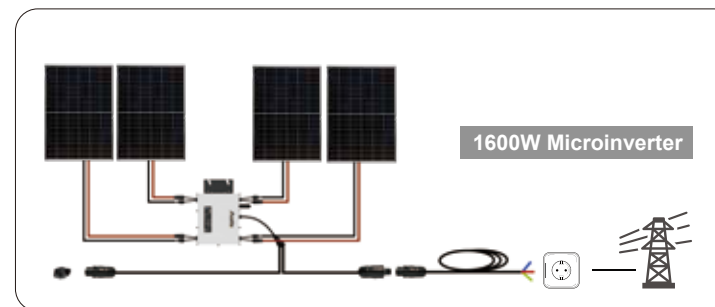
◎ ONE MICROINVERTER + TWO PANELS SOLUTION



All in one carton packing

- ① Solar panel: 410W*2 pcs (full black)
- ② Microinverter: 600/800/1000W*1 pcs
- ③ Mounting bracket: 1 set
- ④ AC cable with plug: 5m*1 pcs

◎ ONE MICROINVERTER + FOUR PANELS SOLUTION



All in one carton packing

- ① Solar panel: 410W*4 pcs (full black)
- ② Microinverter: 1600/2000W*1 pcs
- ③ Mounting bracket: 1 set
- ④ AC cable with plug: 5m*1 pcs

AU-1P6002G-230-EU

Input Data (DC)	
Max Recommended PV Power (Wp)	450W *2
Max DC Open Circuit Voltage (Vdc)	60V
Max DC Input Current	14A * 2
MPPT Tracking Accuracy	>99.5%
MPPT Tracking Range (Vdc)	22V - 55V
Max DC Short Circuit Current	18A * 2
Max Inverter Backfeed Current to the Array	0
Output Data (AC)	
Max AC Output Power (Wp)	600W
Nominal Voltage/Range (Vac)	230V/Configurable
Nominal Frequency (Hz)	50Hz
THD	<3% (at rated power)
Power Factor	>0.99 (at rated power)
Rated Output Current	2.61A
Current (inrush, peak and duration)	24A, 15µs
Max Output Fault Current	4.6A peak
Max Output Overcurrent Protection	10A
Maximum units per branch	6
Efficiency	
Weighted Averaged Efficiency (CEC)	96.5%
Night Time Rate Loss (Wp)	0.11

Protection Functions	
Over/Under Voltage Protection	Yes
Over/Under Frequency Protection	Yes
Anti-islanding Protection	Yes
Overcurrent Protection	Yes
Reverse DC Polarity Protection	Yes
Overload Protection	Yes
Protection Degree	NEMA-6 / IP-66 / IP-67
Environmental	
Ambient Temperature Range	-40 ~ + 65°C
Operating Temperature Range	-40 ~ + 85°C
Environment Category	Indoor and outdoor
Pollution Degree	PD 3
Physical	
Display	LED light
Communications	Power line / Frequency: 2.4 Ghz Standards: IEEE 802.11/b/g/n
Dimensions (W x H x D)	277 * 132 * 50mm
Weight	2.9 kg
Compliance	
Overvoltage Category	II (PV), III (AC MAINS)
Product Safety Compliance	UL 1741, CA Rule 21 Certified, CSA C22.2 No. 107.1, IEC/EN 62109-1 IEC/EN 62109-2
Grid Code Compliance Refer to the label for the detailed grid code compliance	IEEE 1547, VDE-AR-N 4105, VDE V 0126-1-1/A1 G83/2, CEI 021, AS 4777.2 & AS 4777.3, EN50438, Erzeuger Typ A
Warranty	10 years

AU-108MH



Half-cut Technology

New circuit design, lower internal current and lower internal resistance loss



Significantly avoiding heat spot

The unique circuit design to reduce the temperature of heat spot significantly, so that to reduce the power loss and then increase the output of modules.



Lower cost

Increasing power generation can reduce the cost per kilowatt-hour



Excellent performance of PID resistance

The performance of PID resistance (Potential Induced Degradation) passed the standard of TUV Nord.



15
YEARS

Guarantee

30
YEARS

Warranty

ELECTRICAL DATA (STC)

Model Type	AU390-27V -MHB	AU395-27V -MHB	AU400-27V -MHB	AU405-27V -MHB	AU410-27V -MHB
Peak Power(Pmax)	390.00	395.00	400.00	405.00	410.00
Maximum Power Voltage(Vmp)	30.82	30.98	31.14	31.30	31.46
Maximum Power Current(Imp)	12.66	12.76	12.85	12.94	13.04
Open Circuit Voltage(Voc)	36.65±3%	36.85±3%	37.05±3%	37.25±3%	37.45±3%
Short Circuit Current(Isc)	13.49±3%	13.58±3%	13.67±3%	13.76±3%	13.85±3%
Module Efficiency(%)	19.94	20.20	20.46	20.71	20.97

* STC: irradiance 1000 W/m², AM 1.5, and cell temperature of 25°C

ELECTRICAL DATA (NOCT)

Model Type	AU390-27V -MH	AU395-27V -MH	AU400-27V -MH	AU405-27V -MH	AU410-27V -MH
Peak Power(Pmax)	290.0	293.7	297.4	301.1	304.8
Maximum Power Voltage(Vmp)	28.56	28.72	28.88	29.04	29.20
Maximum Power Current(Imp)	10.16	10.23	10.30	10.37	10.44
Open Circuit Voltage(Voc)	34.33±3%	34.51±3%	34.69±3%	34.87±3%	35.05±3%
Short Circuit Current(Isc)	10.84±3%	10.92±3%	11.00±3%	11.08±3%	11.16±3%

* NOCT: irradiance 800 W/m², AM 1.5, ambient temperature 20°C, wind speed 1 m/s

TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficients (W/°C)	-0.350 %/°C
Voc Temperature Coefficients (V/°C)	-0.285 %/°C
Isc Temperature Coefficients (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	108 (12*9)
Dimensions	1722*1134*30mm
Weight	20.00kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm ² cable 90cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

PACKING WAY

20FT container	6 Packages/222pcs
40HQ container	26 Packages/962pcs

© **PROJECT
REFERENCE**

