

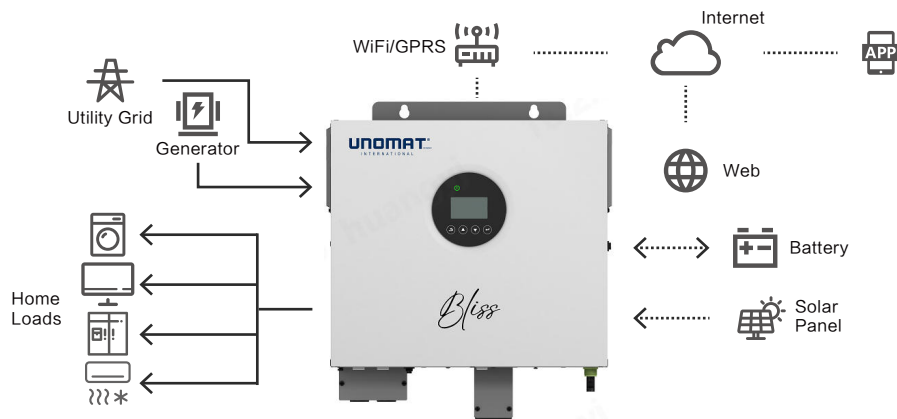
UM Bliss Series ▶▶

Off-Grid Solar Inverter

3.6kVA~6kVA



General introduction



Features

✓ Safety

- 6kV lightning protection
- DC – DC high frequency isolating converter
- Battery input and AC output fully isolation

🌿 Green

- Up to 94% efficiency
- Output power factor is 1.0
- Intelligent cooling fan control

🔗 Reliable

- Widely input voltage of AC and PV
- Pure sine wave output
- High-frequency switching technology

⚡ Fast charging

- Built-in 120A MPPT solar charger
- Built-in communication port for BMS

👤 User-friendly

- Dot-matrix screen and physical button
- Built-in WiFi module (optional)
- APP support (optional)

🏠 Applications

- Support home appliances/office equipment/lighting equipment etc.
- Support lead-acid and lithium-ion battery
- Max. 6 units in parallel

Technical Specifications

Model	BLISS-3.6KW	BLISS-6KW
Input(AC)		
Nominal Voltage	220/230/240Vac	
Selectable Voltage Range	170~280Vac(For Personal Computers) 90~280Vac(For Home Appliances)	
Frequency	50/60Hz (Auto Detection)	
Power Factor	0.98	
AC Switch	Optional	
Generator input	Support	
PV String Input(DC)		
Max PV Array Open Circuit Voltage Range	500Vdc	
Start-up Voltage	120Vdc	
Initial Feeding Voltage	150Vdc	
MPPT Voltage Range	120Vdc ~ 450Vdc	
Number of MPPT Trackers	1	
Maximum PV input Power	4000W	6000W
DC Switch	Optional	
AC Output		
Nominal output Power	3600W/3600VA	6000W/6000VA
Nominal Voltage (Batt. Mode)	220/230 (Default)/240Vac ± 5%, User Settable	
Surge Power	7200VA	12000VA
Transfer Time	15ms (For Personal Computers); 20ms (For Home Appliances)	
Waveform	Pure sine wave	
Output THDv(@Linear Load)	<3%	
PV Mode Maximum Efficiency	97.00%	
Battery Mode Efficiency(Peak)	90~94%	
Battery & Charge		
Nominal Votage(LiFePO4)	25.6Vdc	51.2Vdc
Nominal Votage(Lead Acid)	24V	48V
Max. AC charge Current	120A	120A
Max. Solar Charge Current	120A	120A
Max. Charge Current(Solar + AC charge current)	120A (User selectable)	120A(User selectable)
Interface & Mechanical		
Display	LCD & LED	
Parallel Function	Yes, 6 units	
Communication Interface	RS232/USB; Optional: RS485/CAN/Dry Contact/WIFI/Bluetooth	
Dimension (D*W*H/mm)	410 × 366 × 127mm	
Net Weight (kg)	11kg	12.5kg
Protection		
Output Over-current Protection	Yes	
PV Reverse Polarity Protection	Yes	
String Fault Detection	Yes	
Insulation Detection	Yes	
AC/DC Surge Protection	Yes	
General Specifications		
Operating Temperature	-10℃ ~ 50℃	
Storage Temperature	-15℃ ~ 60℃	
Relative Humidity	5%~ 95%, non-condensing	
Altitude	<3000m	
Protection Class	IP20	
Standards		
Safety	IEC/EN62109-1&2	
EMC	EN61000-6-1&2&3&4	
RoHS	Yes	

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design