

UPC-US Series Off-Grid Inverter

This is a multi-function Inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. The interactive design of buttonless touch screen makes the operation infinitely simple. By cooperating with the remote monitoring app, it is possible to understand the power generation situation in real-time, while also upgrading programs and setting key parameters remotely.



Powerful Features

- Supports setting the charging and discharging time period.
- Wide range of Grid input voltage range: 85~140Vac. Suitable for all kinds of complex power grid environment.
- Wide MPPT voltage input range: 90~450 Vdc. Compatible with all kinds of PV system.
- Lithium battery loss activation wake-up.
- Anti-countercurrent grid-connected function (photovoltaic hybrid power supply).



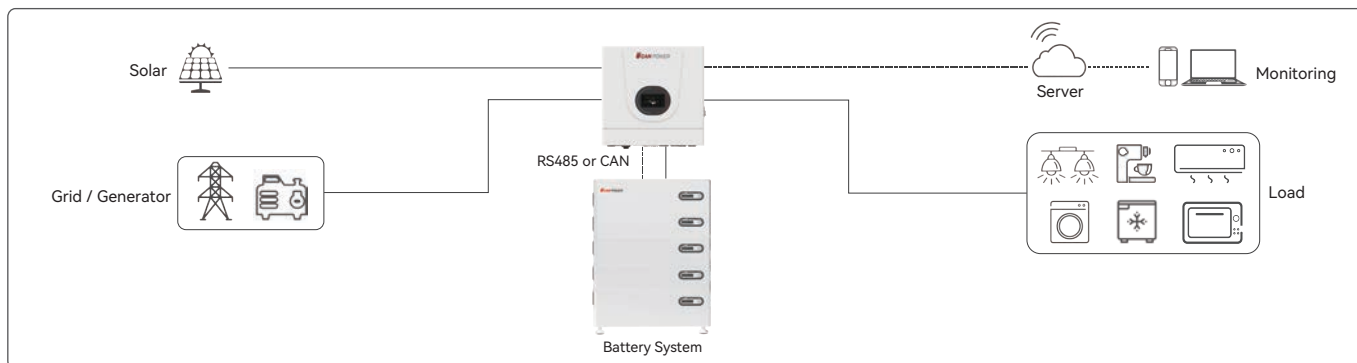
Reliability

- Multiple electrical protection for user safety.
- Automatic restart when grid power is restored.
- Smart battery charger design for optimized battery performance.
- Compatible to mains voltage or generator power.
- Support 6 machines in parallel, constitute three-phase four-wire power generation system.



User-Friendly

- Configurable AC/Solar Charger priority via touch screen setting.
- Configurable dual AC outputs via touch screen setting.
- APP remote monitoring, real-time view of equipment status.
- Supports separate power generation from PV in case of grid availability.
- Supports remote OTA upgrade.



Model	UPC-3.6KS-US	UPC-6.5KS-US	UPC-7.2KD-US	UPC-12KD-US
Battery				
Rated Voltage	51.2V			
Voltage Range	40~58.6Vdc±0.6Vdc			
Max. Charge Current	80A	150A	220A	
AC Output (Backup)				
Rated Power	3600W	6500W	7200W	12000W
Rated Output Voltage	120Vac		120Vac (L1/N, L2/N)/240Vac(L1/L2)	
Output Frequency	50/60Hz (Auto Detect)			
Max Output Current	36A	65A	50A+50(L1/L2)	120A
Rated Current	30A	54.1A	40A+40(L1/L2)	100A
Peak Power	7200W	12000W	10800W	18000W
Over Load Ability	5min@102~125% Load 10s@125~150% Load 5s@>150% Load			
Peak Efficiency(Battery Mode)	> 91%			
Transfer Time	10ms			
AC Input				
Input Sources	L+N+PE		L1+N1+L2+N2+PE	
AC Input Voltage Range	90Vac~140Vac ±2%		85Vac~140Vac ±2%	
Rated Input Voltage	120Vac		120Vac (L1/N, L2/N)/240Vac(L1/L2)	
AC Input Frequency	50/60Hz (Auto Adaptive)			
PV Input				
Max PV Input Power	4500W	4500W/4500W	4500W/4500W	6000W/6000W
Number of Independent MPPT Trackers	1	1/1	1/1	
No. of PV Strings per MPPT Trackers	1	2	2	
Max. PV Input Voltage	300Vdc		500Vdc	
MPPT Voltage Range	90~260Vdc		90~450Vdc	
Max. DC Input Current	27A	22A+22A	16A+16A	22A+22A
Max. DC Short Circuit Current	28A	24A+24A	18A+18A	24A+24A
General Data				
Range of Working Temperature	-10°C~55°C			
Storage Temperature	-25°C~55°C			
Humidity	20~95% non-condensing			
Cooling Strategy	Fan			
Altitude	<1000m			
Weight	12kg	21kg	21kg	25kg
Dimension [W x H x D]	377*380*112mm	460*505*134mm	460*505*134mm	580*505*134mm
Enclosure Protection Rating	IP20			
Communication	Wi-Fi (Optional)/RS485/CAN			
Certificate	UL STD.1741, FCC			

UFox-X-Plus Off-Grid Energy Storage System

UFox-X series is a off-grid energy storage system, which can connect solar panel, grid (or generator) and load.

It contains expandable LFP battery, off-grid inverter and battery management system (BMS).

It has multiple work modes to meet lots of application scenarios, and reduce the electricity bill, store the energy for emergency back-up.



Advanced Design

- Modular and all in one design, compact and elegant appearance
- Less than 10ms UPS-level switching (UPS Mode)
- PV input Oversizing



High Reliability

- Both PV and grid (or Generator) charge, fast and convenient.
- LiFePO₄ battery cell, safety and reliable
- Multiple protections, safe and reliable



User-Friendly

- Easy data check via both LCD touch display or App
- Peak-shaving mode, reduce the electricity bill.
- Flexible battery capacity expansion, 16.08~96.48kWh



System Parameters

System Structure						
Rated Output Power	6500W/7200W/12000W					
Number of Battery	1	2	3	4	5	6
Battery Capacity	16.08 kWh	32.16 kWh	48.24 kWh	64.32 kWh	80.4 kWh	96.48 kWh
Operating Temperature	0°C~50°C (Charge) / -10°C~55°C (Discharge)					
Storage Temperature	-15~60°C					
Humidity	20-95%Non-Condensing					
Enclosure Protection Rating	IP20					
Communication	Wi-Fi (Optional)					

Inverter

Model	UFox-X-Plus-065US	UFox-X-Plus-072UD	UFox-X-Plus-120UD
Rated output power	6500W	7200W	12000W
Output surge power	12000W	10800W	18000W
Max. output current	65A	80A	120A
Rated output voltage	120Vac (L1/N, L2/N)	120Vac (L1/N, L2/N)/240Vac (L1/L2)	
Rated frequency	50/60Hz (Auto Detect)		
THDv	< 3%		
Output wave	Pure Sine Wave		
AC input voltage range	90~140Vac±2%	85~140Vac±2%	
AC input frequency	50/60Hz(Auto Adaptive)		
AC input sources	L+N+PE	L1+N1+L2+N2+PE	
Max. PV power(Recommended)	4500W/4500W	4500W/4500W	6000W/6000W
Max PV Input Power	300Vdc	500Vdc	
MPPT voltage range	90~260Vdc	90~450Vdc	
Max charge current(Battery)	22A+22A	16A+16A	22A
Cooling strategy	Fan		

Battery Module

Rated battery voltage	51.2V
Battery voltage range	44.8~57.6V
Capacity	16.08 kWh
Max. charge and discharge rate	0.5C
Battery type	Li-ion (LFP)

Certificate

Certificate	CE, UN38.3 ULSTD.1741.FCC
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