



**VIRTUE
ENERGY**



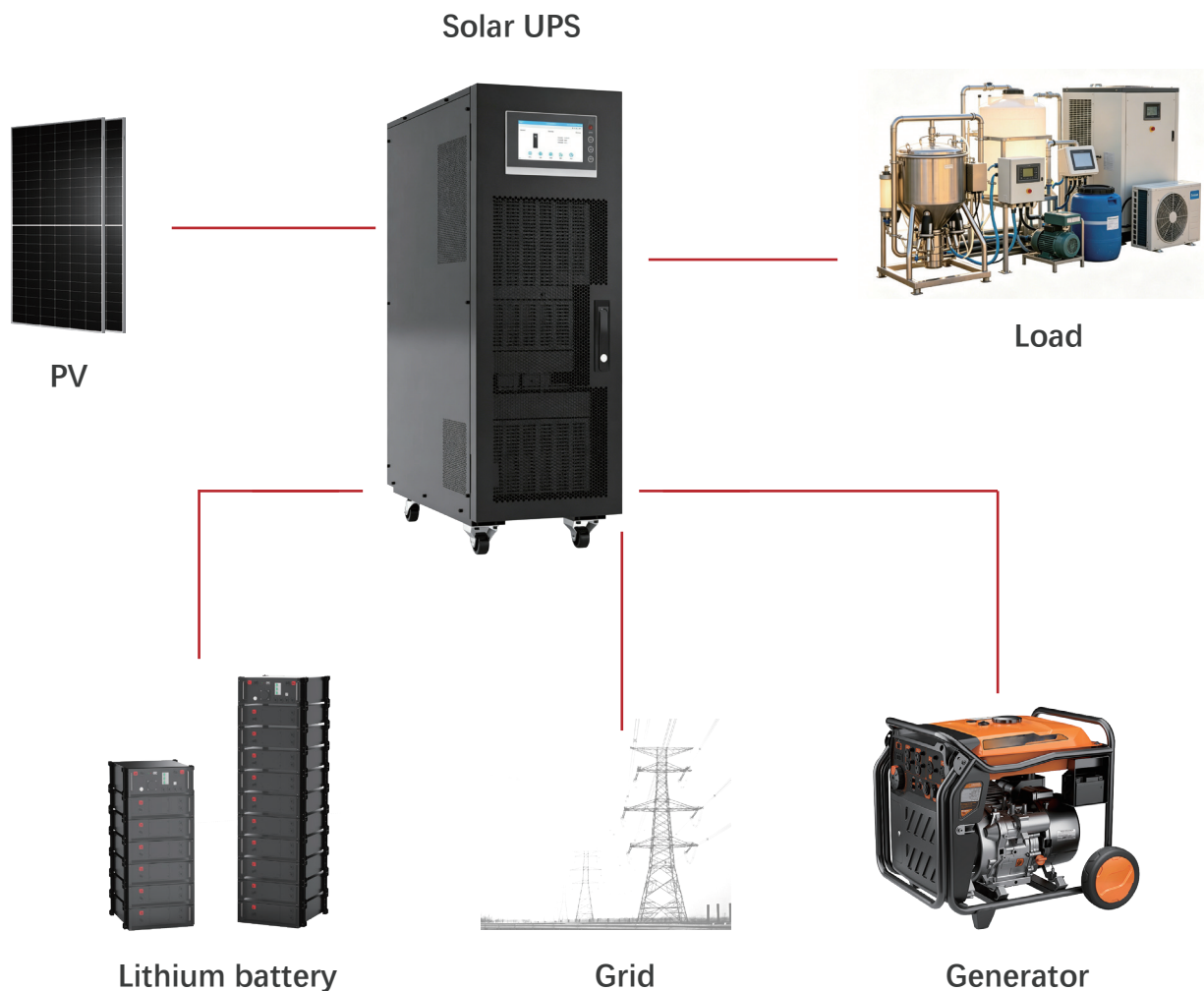
Solar UPS 10~600kVA

Virtue Energy(ShenZhen) Co.,Ltd.

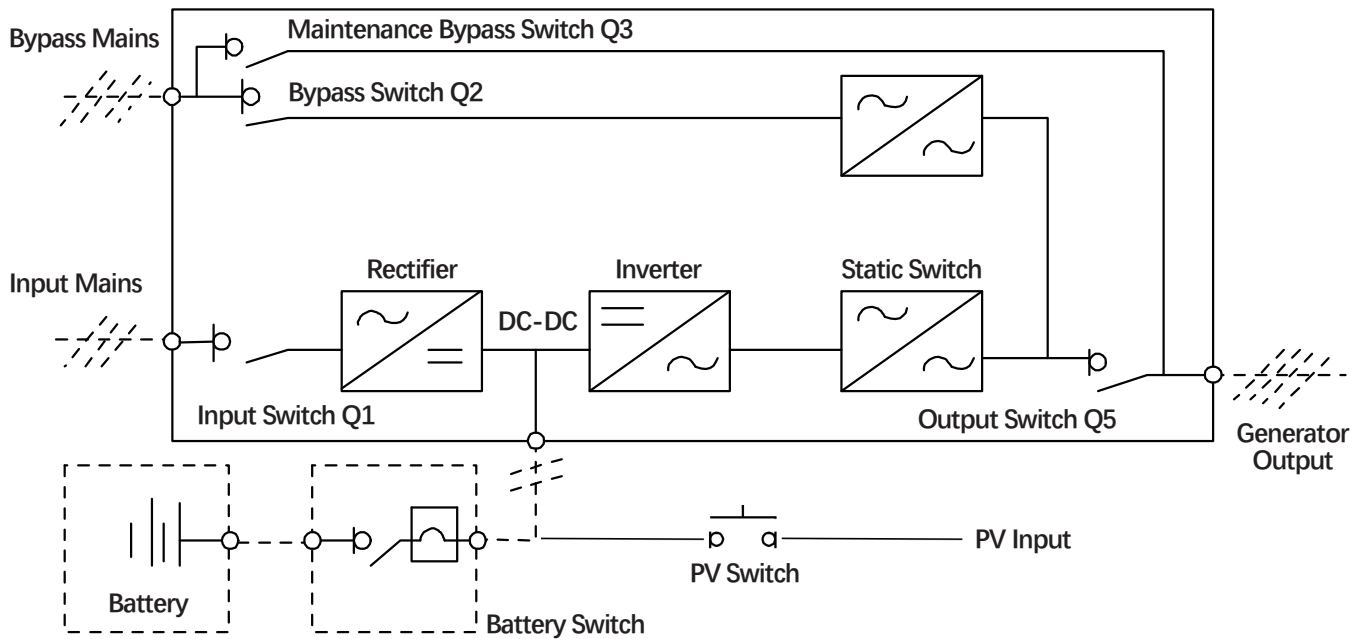
Solar UPS (10~600kVA)

The Solar UPS integrates PV inverter, energy storage management, and uninterrupted power supply. It uses thyristor phase-controlled rectification technology, with an output isolation transformer as standard. Dual DSP full-digital control and intelligent battery management support green PV energy storage integration, enabling 0ms seamless switching to provide highly pure, stable AC power to loads. The device ensures continuous power supply during grid anomalies (e.g., outages, voltage fluctuations, frequency deviations), making it an ideal green power solution for critical applications.

Solar UPS System



System Topology Diagram



Integrated PV & Storage, Green & Efficient

Combines PV direct supply, storage backup, and UPS in one unit. Self-consumption of green electricity turns cost center into revenue generator. Ideal for farms, off-grid areas, and high-tariff regions.



Pure Sine Wave, Zero Switching

Pure sine wave output, stable voltage and frequency, strong anti-interference, 0ms transfer time.



Self-Consumption, Carbon Compliance

Use clean energy, reduce carbon emissions, meet regulatory standards, enhance environmental and brand image, align with global low-carbon trends.



Intelligent Peak Shaving, Lower Bills Switching

Customizable charge/discharge time slots — store power during low rates, discharge during peak rates, maximize price gap savings, significantly reduce electricity costs.



High Voltage Compatibility, High Efficiency

Compatible with high-voltage battery banks. high efficiency, low no-load loss, energy-saving for long-term operation.



6000 Cycles, Longer Lifetime

High-voltage LiFePO4 cells with 6000 cycles + intelligent BMS, far longer than conventional batteries, drastically reducing replacement costs.



Safety Isolation Protection

Output isolation transformer provides surge protection, moisture resistance, and electric shock prevention — safer for farm use.



Stable Off-Grid / Weak-Grid Supply

PV direct supply + storage backup ensures stable power in areas with no or poor grid. Preferred for farms in South Africa and Europe.



Parallel Expansion, Up to 6 Units

Supports up to 6 units in parallel, flexible capacity expansion for high-power loads and future needs.



Smart Operation & Maintenance

LCD screen + remote monitoring + intelligent BMS management — one-key settings, easy maintenance.

Model		Solar 3B3 10K	Solar 3B3 15K	Solar 3B3 20K	Solar 3B3 30K	Solar 3B3 40K	Solar 3B3 60K
PV Input	Recommended PV Power	14.56KW	21.84KW	21.84KW	29.12KW	50.96KW	72.8KW
	Max. PV Power	Configurable As Per Customer Requirement					
	Max. DC Voltage	498V					
	Rated DC Voltage	416V					

Battery Input	Battery Type	LFP(LiFePO4)					
	Battery Input	409.6VDC					
	Max. Charge Current	0.5C					
	Rated Discharge Current	1C					
	Battery Capacity	100Ah (Configurable As Per Customer Requirement)					
	Battery Charging Strategy	BMS Intelligent Management					

AC Input	Rated Input Voltage	380 / 400 / 415VAC					
	Rated Input Frequency	50/60Hz					
	Phase	Three-phase Five-wire					
	Input Power Factor	0.97(With Optional Filter)					

AC Output	Max. Apparent Output Power	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA
	Output Power Factor	0.8					
	Max. Output Current (380VAC)	15A	23A	30A	46A	60A	92A
	Rated Output Voltage	380 / 400 / 415VAC±1%					
	Rated Output Frequency	50/60Hz					
	Output Voltage THD	<2%(Linear Load)					
	Transfer Time	0ms					

General Parameters	Max. Efficiency	> 92.60%					
	Dimensions (W*D*H) (mm)	350*682*1046			430*865*1100		720*710*1400
	Weight (KG)	145	165	165	204	255	320
	Operating Temperature Range	0°C~+40°C					
	Noise (dB)	<58					
	Max. Operating Altitude	1500m					
	Operating Humidity	0~95%(Non-condensing)					
	Communication	RS485/RS232//dry contact (optional)/SNMP card (optional)					
	Display	LCD					

Product Specifications//////////

Model		Solar 3B3 80K	Solar 3B3 100K	Solar 3B3 120K	Solar 3B3 160K	Solar 3B3 200K	Solar 3B3 300K
PV Input	Recommended PV Power	94.64KW	123.76KW	145.6KW	188.76KW	240.24KW	364KW
	Max. PV Power	Configurable As Per Customer Requirement					
	Max. DC Voltage	498V					
	Rated DC Voltage	416V					
Battery Input	Battery Type	LFP(LiFePO4)					
	Battery Input	409.6VDC					
	Max. Charge Current	0.5C					
	Rated Discharge Current	1C					
	Battery Capacity	100Ah (Configurable As Per Customer Requirement)					
	Battery Charging Strategy	BMS Intelligent Management					
AC Input	Rated Input Voltage	380 / 400 / 415VAC					
	Rated Input Frequency	50/60Hz					
	Phase	Three-phase Five-wire					
	Input Power Factor	0.97(With Optional Filter)					
AC Output	Max. Apparent Output Power	80KVA	100KVA	120KVA	160KVA	200KVA	300KVA
	Output Power Factor	0.9					
	Max. Output Current (380VAC)	120A	152A	182A	242A	304A	456A
	Rated Output Voltage	380 / 400 / 415VAC±1%					
	Rated Output Frequency	50/60Hz					
	Output Voltage THD	<2%(Linear Load)					
	Transfer Time	0ms					
General Parameters	Max. Efficiency	> 92.60%					
	Dimensions (W*D*H) (mm)	720*710*1400		1200*800*1600			1760*1010*1900
	Weight (KG)	450	556	693	780	1030	1560
	Operating Temperature Range	0°C~+40°C					
	Noise (dB)	<58					
	Max. Operating Altitude	1500m					
	Operating Humidity	0~95%(Non-condensing)					
	Communication	RS485/RS232//dry contact (optional)/SNMP card (optional)					
	Display	LCD					

Model		Solar 3B3 400K	Solar 3B3 500K	Solar 3B3 600K
PV Input	Recommended PV Power	480.48KW	596.96KW	720.72KW
	Max. PV Power	Configurable As Per Customer Requirement		
	Max. DC Voltage	498V		
	Rated DC Voltage	416V		

Battery Input	Battery Type	LFP(LiFePO4)		
	Battery Input	409.6VDC		
	Max. Charge Current	0.5C		
	Rated Discharge Current	1C		
	Battery Capacity	100Ah (Configurable As Per Customer Requirement)		
	Battery Charging Strategy	BMS Intelligent Management		

AC Input	Rated Input Voltage	380 / 400 / 415VAC		
	Rated Input Frequency	50/60Hz		
	Phase	Three-phase Five-wire		
	Input Power Factor	0.97(With Optional Filter)		

AC Output	Max. Apparent Output Power	400KVA	500KVA	600KVA
	Output Power Factor	0.9		
	Max. Output Current (380VAC)	608A	/	/
	Rated Output Voltage	380 / 400 / 415VAC±1%		
	Rated Output Frequency	50/60Hz		
	Output Voltage THD	<2%(Linear Load)		
	Transfer Time	0ms		

General Parameters	Max. Efficiency	> 92%		
	Dimensions (W*D*H) (mm)	1760*1010*1900	1800*1000*1900	2580*1000*1900
	Weight (KG)	1640	2880	3244
	Operating Temperature Range	0°C ~ +40°C		
	Noise (dB)	<65		
	Max. Operating Altitude	1500m		
	Operating Humidity	0~95%(Non-condensing)		
	Communication	RS485/RS232//dry contact (optional)/SNMP card (optional)		
	Display	LCD		



Durable Safe And Reliable

High-end Lithium Battery System Solution Service Provider

Virtue Energy(Shen Zhen)co.ltd

EVOC Technology Ind,Gaoxin Road,Guangming District,Shenzhen,China 315000

Website: www.virtueups.com