

Solar Hybrid 1-20kVA



Specifications

- Auto priority logic
- Pure Sine Wave output
- Phase reversal protection
- Auto wakeup & sleep mode
- High efficiency
- For long backup time
- Intelligent charger ensuring more battery life
- 10% more solar energy by using MPPT charger
- Overload, short circuit protection and auto recovery
- Battery (DC) cold start
- Genset compatibility
- 2 years warranty



Lead Carbon battery



Applications

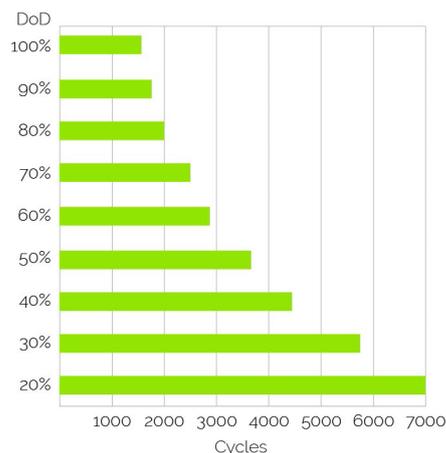


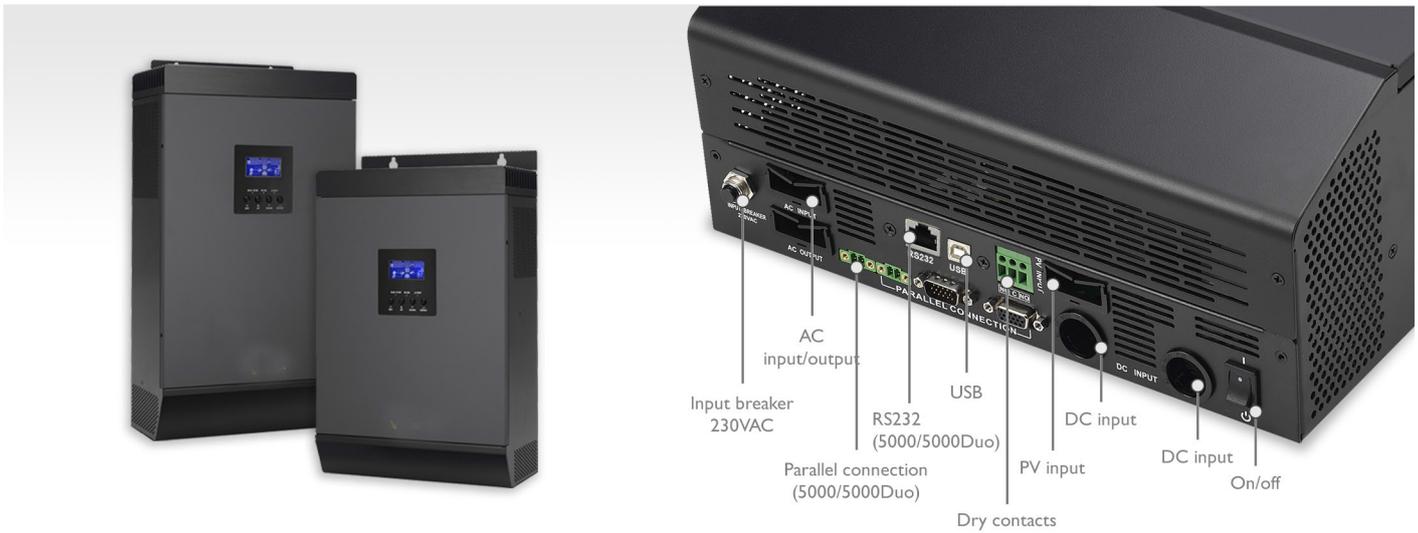
Working Principle

During normal day operation, the connected load is powered by solar energy. If the solar energy is not strong enough, all missing energy is supplied by the batteries. If both energies are not available, the system automatically switches to normal AC supply or genset.

Lead carbon battery

- New technology ideal for solar use
- Wide temperature range: -10°C to 50°C
- Fast charge, 80% of capacity in less than one hour
- Up to 15 years lifetime
- Big number of cycles





Hybrid solar UPS	Model			
	1000	2000	3000	5000/5000Duo
— Input				
Voltage range	90-280Vac			
Frequency	50/60Hz (auto-sensing)			
— Output				
Pure Sine Wave				
Max. power	1000VA	2000VA	3000VA	5000VA
Max. power AC	1000W	1600W	2400W	4000W
Output voltage	230Vac +/-5			
Harmonic distortion (THDi)	<5%			
Frequency	50/60Hz			
Max. output current	4,5A	8,5A	12,5A	21,5A
Overload in bypass mode	120% for 180sec / 150% for 3sec			
Overload in battery mode	110% for 60sec / 130% for 30sec			
— Charger				
Max. PV power	900W	3000W	3000W	3000W/6000W
MPPT voltage min/max - Voc	60/88Vdc - 102Vdc	60/115Vdc - 145Vdc		
Max. charge current	18A	60A		60A/120A
Max. efficiency	98% - standby power consumption 2W			
— Battery (external)				
Battery voltage	48Vdc			
Max. AC charger	15A			60A
Max discharge current	50A		60A	100A
Battery capacity max.	48Vdc 100Ah	48Vdc 300Ah	48Vdc 400Ah	48Vdc 800Ah
High voltage alarm	57Vdc			
Shutdown voltage	58,5Vdc			
Low voltage alarm	44Vdc			
Shutdown undervoltage	40Vdc			
— Environment				
Protection degree	IP20			
Operating temperature	0-45°C		0-55°C	
Audible noise at 1m	< 50dB		< 55dB	
Relative humidity	0 to 90% non-condensing		5 to 95% non-condensing	
Altitude	0-2000m			
— Communication				
Communication port	USB including Software			
— Physical (UPS)				
Dimensions (DxWxH), mm	105x275x360	145x300x480		145x300x480/200x300x460
Net weight (only Hybrid UPS)	7kg	12kg	13kg	14kg/17kg
— Protection				
Input/output	Overvoltage, short-circuit, overload, battery deep discharge			
— Options				
Solar panel kits	2-4x250Wc	3-12x250Wc	4-24x250Wc	
Battery kits	48Vdc 24-100Ah	48Vdc 100-300Ah	48Vdc 65-800Ah	
Parallel kits	-			Up to 4 units

HYBRID