

SOLAR GENERATOR //

VitaBank 1000

(Single-Phase)



800W

PV input power



500W

AC output power



1000Wh

Battery capacity



- True Plug & Play – No installation or wiring required.
- Reliable Home Backup – Keep essential appliances running during outages.
- Solar Ready – Recharge from solar panels, utility power or a generator.
- Quiet & Maintenance-Free – Clean LiFePO4 power with minimal noise.

SPECIFICATIONS

Inverter Module		VitaBank 1000
Inverter / Charger		
Rated AC output power (W)		500
Output voltage waveform		Pure sine wave
Output voltage (V)		230
Low DC warning point (V)		2.9
Low DC cut-off voltage (V)		2.85
Low DC warning return voltage (V)		2.95
Charging power (Utility + Solar) (W)		768
Bulk charging voltage (V)		2.8~3.5
Float charging voltage (V)		≥3.5
Solar Input		
Rated PV voltage (V)		32
PV MPPT voltage range (V)		10~55
Number of independent MPPT inputs		1 (1 : 2 PV parallel input)
Max. PV array open circuit voltage (V)		60
Solar charging power (W)		800
Max. PV input current per MPPT (A)		25 (12.5 / 12.5)
Max. PV short-circuit current input per MPPT (A)		30 (15 / 15)
AC Input		
Rated input voltage (V)		230
Low loss voltage		170Vac±7V(UPS); 90Vac±7V(Appliances)
Low loss return voltage		180Vac±7V(UPS); 100Vac±7V(Appliances)
High loss voltage		280Vac±7V
High loss return voltage		270Vac±7V
AC input voltage range (V)		90~280
Rated input frequency		45~65
AC charging power (W)		500
Rated AC input current (A)		4.5
Rated AC input power (W)		1000
Lithium Iron Battery		
Rated energy (Wh)		1004
Rated battery voltage (V)		3.2
Rated capacity (Ah)		314
Max. charge current (A)		240
Max. discharge current (A)		314
Operation voltage range (V)		2.5~3.65
Operation temperature (°C)		0~50 (Charge) / -20~55 (Discharge)
Cycle life		3000
DC Output		
DC output socket		1 × USB-A (5V/3A) 1 × USB-C (5V/3A)
Display Function		
LED indicator		4 pcs SOC indicators, 1 pcs AC working status indicator and 1 pcs DC working status indicator
Protection		
PV reverse polarity protection		YES
PV float charge protection		YES
Battery over-temperature protection		YES
System over-temperature protection		YES
Inverter overload protection		YES
Bypass overload protection		YES
General		
Dimensions (W × H × D mm)		300 × 205 × 180
Weight (kg)		10.6Kg
Ingress protection rating		IP20
Warranty		1.5 Years
Cooling method		Smart cooling
Noise (dB)		45~55
Working temperature (°C)		0~45
Humidity		Operating: 10%~ 90% relative humidity (non-condensing) Storage: 5% ~ 95% relative humidity (non-condensing)
Max. operating altitude (m)		3000
DC connection (VP-D4/MC4 (Optional))		XT90 ×1
AC connector (AC Input)		IEC ×1
AC connector (AC Output)		Universal ×2
Standards & Certification		
IEC 62109-1/-2, UN38.3		