

Venus -X



Off Grid
SYSTEM

VENUS-X-SR

VENUS-X (inverter model) is a new type of hybrid solar energy storage inverter-control integrated machine with the functions of solar energy storage & grid power charging energy storage and AC sine wave output. It adopts DSP control and advanced control algorithm, and has the characteristics of high response speed, high reliability and high industrial standards. Four charging modes are available: solar only, grid first, solar first and grid & solar mixed charging; The inverter and grid output modes are optional to meet different application requirements.

KEY FEATURES

- Long cycle life : LiFePO4 battery cell,cycle life over 6000 times
- Highest level safety : Multiple safety protection measures
- APP control : Mobile & computer App realizing 24/7 power monitoring
- Saving energy bill : Take advantage of solar power,optimize your power usage
- Scalability : Support phase -splitting & parallel connection
- UPS ability : Switch to battery power supply within 10msec



SYSTEM SPECIFICATIONS

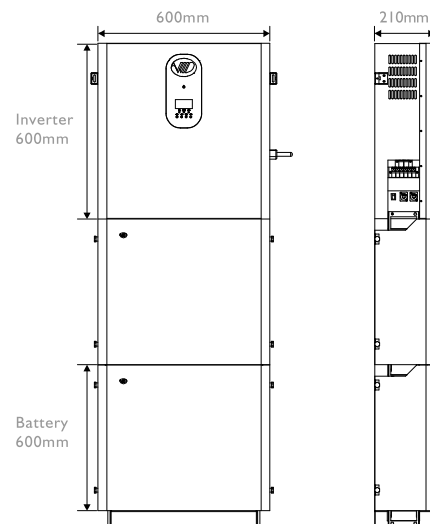
Nominal output power	3000W / 5000W
Capacity range	5.12~30.72kWh / 7.68~46.08kWh
Environment	Indoor
IP protection	IP54
Power modular size(W*D*H)	600*210*600mm
Battery modular size(W*D*H)	600*210*500mm
Power modular weight	23kg
Battery modular weight	57kg / 70kg
Certification	CE / RoHS / UN38.3
Warranty	10 years

Charge temperature	0°C~45°C
Operating temperature	-15°C~55°C
Storage temperature	-25°C~60°C
Operating altitude	0 - 4,000m (Derating above 2,000m)
Cooling	Natural convection
Designed life	> 10 years
Cycle Life	6000 times

INVERTER TECHNICAL SPECIFICATIONS

Rated power	3000W / 5000W
Surge rating	6000W / 10000W
Phase	Single-phase / off grid
Display	LCD
Waveform	Pure sine wave
Power factor	1
Voltage	230V
Output frequency	50Hz / 60Hz
Efficiency	> 92%
Switching time	10ms (typical value)
PV max. open circuit voltage	145V
MPPT voltage range	60~115V
PV max. input power	4200W
PV max. charge current	80A
Max. power grid charging current	60A
Wire connection protection	Reverse connecting protection
Short circuit protection	Breaker and fuse
Overcharge protection	Alarm and turn off charging 1 minute later
AC rated input voltage	220 / 230VAC
AC input frequency	50Hz / 60Hz
AC max. bypass overload current	40A
AC input efficiency	> 95%

PRODUCT DIAGRAM



BATTERY TECHNICAL SPECIFICATIONS

Battery chemistry	Lithium Iron Phosphate Battery(LiFePO4)
Nominal voltage	51.2V
Battery voltage range	43.2V~58.4V
Battery module capacity	48V 100Ah (5.12kWh) / 48V 150Ah (7.68kWh)