LIGHTING THE WORLD WITH GREEN ENERGY

PRODUCT BROCHURE

VOLTVISION

VOLTVISION POWER SYSTEMS

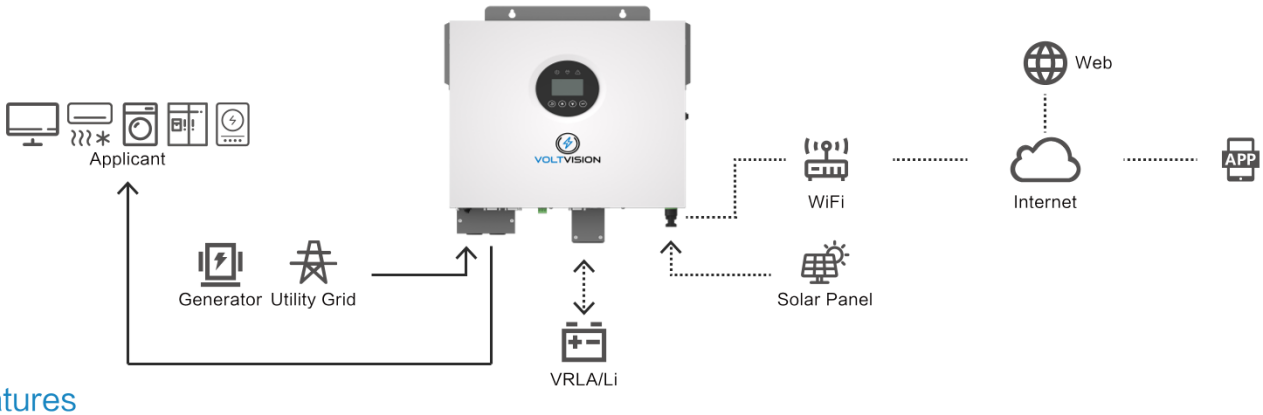
NightOwl Series

VOLTVISION

Off-Grid Solar Inverter

3.6kW/6kW

General introduction



Features

Safety

- 6kV lightning protection
- DC – DC high frequency isolating converter (Battery)
- Waterproof PV terminal

Green

- Up to 93.5% efficiency
- Output power factor is 1.0
- Intelligent cooling fan control
- Low THDv

Reliable

- Widely input voltage of AC and PV
- Pure sine wave output
- Compatible with generator
- Built-in Intelligent temperature sensors
- Dust cleaning alarms and dust-proof components

Fast charging

- PV and AC charging current is up to 120A
- Intelligent charging (Multiple charging modes)

User-friendly

- Dot-matrix screen and physical button
- Built-in WiFi module (Optional)
- APP support (Optional)
- Built-in PV terminal for easy installation

Applications

- Support home appliances/office equipment/lighting equipment etc.
- Support lead-acid and lithium-ion battery
- Max. 6 units in parallel
- RS232/USB/Dry Contact

Technical Specifications

Model	NightOwl-3600	NightOwl-3600	NightOwl-6000
Input(AC)			
Nominal Voltage	220/230/240Vac		
Selectable Voltage Range	170~280Vac (For Personal Computers) 90~280Vac (For Home Appliances)		
Frequency	50/60Hz (Auto Detection)		
Power Factor	0.98		
AC Switch	Optional		
Generator input	Support		
PV String Input(DC)			
Max PV Array Open Circuit Voltage Range	500Vdc		
Start-up Voltage	120Vdc		
Initial Feeding Voltage	150Vdc		
MPPT Voltage Range	120Vdc ~ 450Vdc		
Number of MPPT Trackers	1		
Maximum PV input Power	4000W	4000W	6700W
DC Switch	Optional		
AC Output			
Nominal output Power	3600W/3600VA	3600W/3600VA	6000W/6000VA
Nominal Voltage (Batt. Mode)	220/230 (Default)/240Vac ± 5%, User Settable		
Surge Power	7200VA	7200VA	12000VA
Transfer Time	15ms (For Personal Computers); 20ms (For Home Appliances)		
Waveform	Pure sine wave		
Output THDv (@Linear Load)	<3%		
Battery Mode Efficiency (Peak)	93.5%		
Battery & Charge			
Norminal Votage ($LiFePO_4$)	25.6Vdc	51.2Vdc	51.2Vdc
Norminal Votage (Lead Acid)	24V	48V	48V
Max. AC charge Current	120A	60A	120A
Max. Solar Charge Current	120A	60A	120A
Max. Charge Current (Solar + AC charge current)	120A (User Selectable)	60A (User Selectable)	120A (User Selectable)
Interface & Mechanical			
Display	LCD & LED		
Parallel Function	Optional, max 6 units		
Communication Interface	RS232/USB/Dry Contact; Optional: RS485/CAN/WIFI		
Dimension (D*W*H/mm)	134.0*427.5*460.8		
Net Weight (kg)	11.5	11.6	13.2
Protection			
Output Over-current Protection	Yes		
Function Protection	Short Circuit; Over voltage; Under voltage;		
Insulation Detection	Yes		
AC/DC Surge Protection	Yes		
General Specifications			
Operating Temperature	-10℃~50℃		
Storage Temperature	-15℃~60℃		
Relative Humidity	5%~95%, non-condensing		
Altitude	<3000m		
Protection Class	IP21		
Standards			
Safety	IEC/EN62109-1&2		
EMC	EN61000-6-1&2&3&4		

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design
3. Output load will not be derated if the working altitude is under 2000m

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