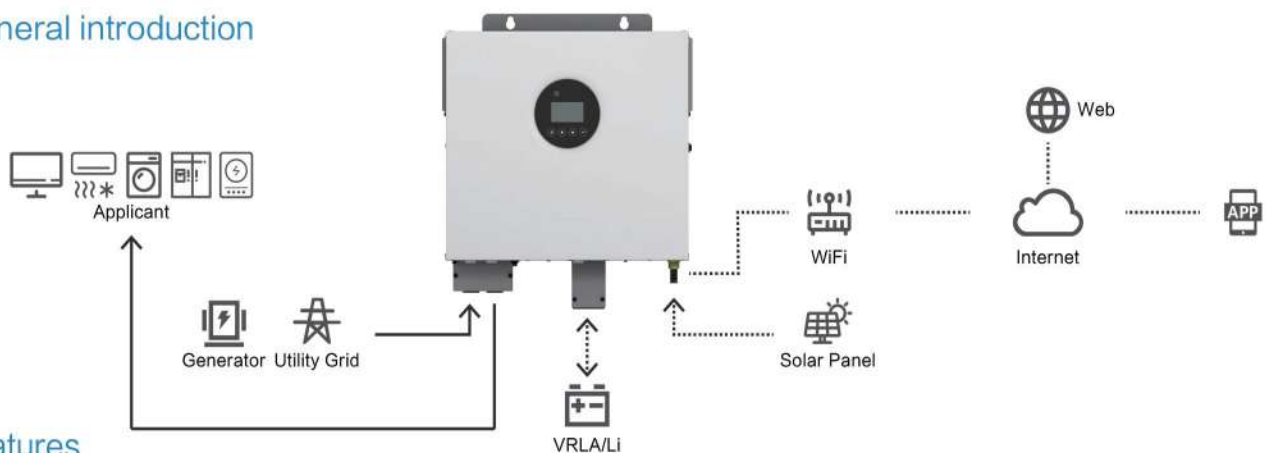




General introduction



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

Technical Specifications

Model	Knight 3600-24		Knight 3600-48		Knight 6000-48	
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						
Nominal Votage (LiFePO4)	25.6Vdc	51.2Vdc	51.2Vdc			
Nominal 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; Optional: RS485/CAN/Dry Contact/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