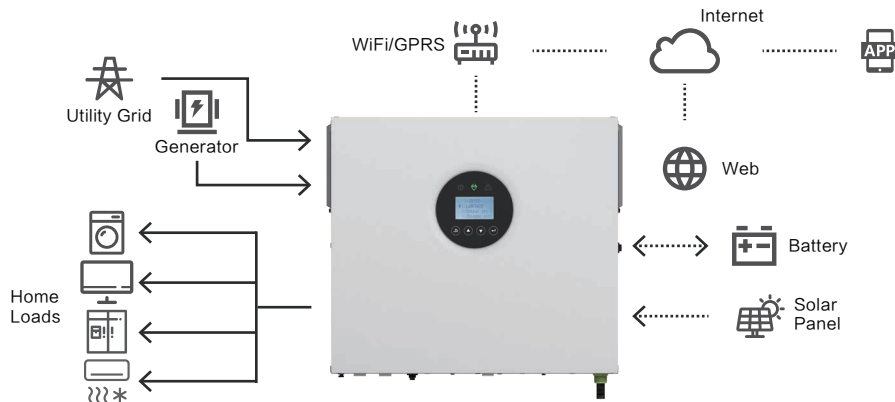




### General introduction



### Features

#### ✓ Safety

- 6kV lightning protection
- DC – DC high frequency isolating converter
- Battery input and AC output fully isolation

#### 🌿 Green

- Up to 94% efficiency
- Output power factor is 1.0
- Intelligent cooling fan control

#### 🔗 Reliable

- Widely input voltage of AC and PV
- Pure sine wave output
- High-frequency switching technology

#### ⚡ Fast charging

- Built-in 120A MPPT solar charger
- Built-in communication port for BMS

#### 👤 User-friendly

- Dot-matrix screen and physical button
- Built-in WiFi module (optional)
- APP support (optional)

#### 🏠 Applications

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

## Technical Specifications

Model	Knights G2 3.6kVA-24V	Knights G2 3.6kVA-48V	Knights G2 6kVA-48V
<b>Input(AC)</b>			
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		
<b>PV String Input(DC)</b>			
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	6000W
DC Switch	Optional		
<b>AC Output</b>			
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%		
PV Mode Maximum Efficiency	97.00%		
Battery Mode Efficiency(Peak)	90~94%		
<b>Battery &amp; Charge</b>			
Norminal Votage(LiFePO4)	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)
<b>Interface &amp; Mechanical</b>			
Display	LCD & LED		
Parallel Function	Yes, 6 units		
Communication Interface	RS232 / USB; Optional: RS485 / CAN / Dry Contact / WIFI / Bluetooth		
Dimension (D*W*H/mm)	410*366*127mm		
Net Weight (kg)	11kg	11kg	12.5kg
<b>Protection</b>			
Output Over-current Protection	Yes		
PV Rerverse Polarity Protection	Yes		
String Fault Detection	Yes		
Insulation Detection	Yes		
AC/DC Surge Protection	Yes		
<b>General Specifications</b>			
Operating Temperature	-10°C ~ 50°C		
Storage Temperature	-15°C ~ 60°C		
Relative Humidity	5%~ 95%, non-condensing		
Altitude	<3000m		
Protection Class	IP20		
<b>Standards</b>			
Safety	IEC/EN62109-1&2		
EMC	EN61000-6-1&2&3&4		
RoHS	Yes		

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