

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 Voltage (LiFePO ₄)	25.6Vdc		51.2Vdc		51.2Vdc	
Nominal Voltage (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°C~50°C					
Storage Temperature	-15°C~60°C					
Relative Humidity	5%~95%, non-condensing					
Altitude	<3000m					
Protection Class	IP21					
Standards						
Safety	IEC/EN62109-1&2					
EMC	EN61000-6-1&2&3&4					

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