

K7 SERIES PORTABLE SOLAR POWER SYSTEM



QKEEP

COMPANY INFORMATION

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500W/1000W/1500W

PRODUCT OVERVIEW

This product is a portable multi-function energy storage power bank featuring a built-in high-efficiency power LiFePO4 battery, a secure battery management system (BMS), and an efficient MPPT controller and inverter. Encased in a robust metal shell, it offers mains charging capabilities, along with the advantages of being lightweight, compact, and high-powered. These features combine to provide customers with a convenient source of mobile energy.



Charge multiple devices at the same time:
2*USB output (5V/2A), 2*220V AC socket, 2*DC port output (12V), support charging multiple devices at the same time. Power your phone, laptop, tablet, lamp, fan, projector, car refrigerator, CPAP machine, drone, switch, camera, etc.



PRODUCT PANEL FUNCTION INTRODUCTION

Handle

AC Output Socket

AC ON/OFF

LED Switch

LED Light

USB 5V Output Port

12VDC Output Port

AC Voltage Displayer

DC Charging Port

DC Voltage Displayer

Solar Charging Indicator

Solar Charging Port

Cooling Fan

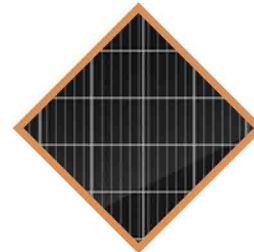


PRODUCT DESCRIPTION



This solar power system has a unique flashlight design that can also be used as a flashlight during power outages and emergencies.

LED Light



The solar system is equipped with multiple charging ports: AC, USB, and car charger ports, providing AC and DC output in two different voltage modes, which can supply power to multiple devices at the same time to meet your various needs;

Multiple Charging Ports



Fast Charging Efficiency

High quality solar panel, up to 20% of conversion efficiency full charge in about 6-8 hours.



Large Capacity Is More Durable

Upgraded high-capacity, 365 days of range with recharge and discharge protection.

BATTERY SPECIFICATION



DesignLife	6-8 years		
Nominal Voltage	12.8V	25.6V	25.6V
Nominal Capacity	48AH	48AH	60AH
Self-Discharge			
3% of capacity declined per month at 20°C(average)			
Operation Temperature Range			
Discharge	-20~60°C		
Charge	-10~60°C		
Storage	-20~60°C		
Max.Discharge Current 77°F(25°C)	100A(5s)		
Short Circuit Current	50A		

BATTERY GUARANTEE OF QUALITY

1

Battery Cells

High-end battery cells keep every cell's voltage, resistance, capacity, discharging always in sync.

2

Battery Protector

High precision IC keep performance more stable protect over load, over charge, over discharge, short circuit, over voltage, over current keep battery pack always safe and long life span.

3

Precision Welding Machine

Fully automatic precision welding machine can ensure that every battery can be welded firmly to prevent the danger of short circuit or power failure.

4

Aging Test Machine

every battery pack need to thorough charging and discharging test by the aging test machine to keep 100% qualified.

SOLAR PANEL SPECIFICATION



Specifications

Peak Power(Pmax)	90/180/325
Maximum Power Voltage(Vmp)	18/36/36
Maximum Power Current(Imp)	5/5/9.03
Open Circuit Voltage(Voc)	22.13/40.13/40.15
Short Circuit Current(Isc)	5.16/5.17/9.18
Cells Efficiency(%)	18.37
Module Efficiency(%)	17.21
Power Tolerance	0~+3%
Pmax Temperature Coefficients(W/°C)	-0.400%
Voc Temperature Coefficients(V/°C)	-0.300%
Isc Temperature Coefficients(A/°C)	+0.060%
NOCT Nominal Operating Cell Temperature(°C)	45±2
Operating and Storage Temperature(°C)	-40~+85
Standard Test Condition(STC)	1.000W/m²:AM 1.5:25+/-2°C

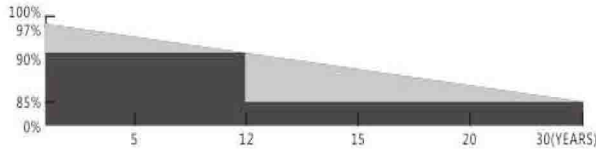
Mechanical characteristics

Front Glass	3.2mm high transmission,low iron,tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP65 Rated
Output cables	Without cables and connector

Product Standard

Product Performance	IEC61215
Product Safety	IEC61730

Linear Performance Warranty



12
YEARS

Guarantee on product materail and workmanship

30
YEARS

Linear Power output warranty

Key Features



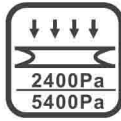
5 Busbar Cell:
5 Busbar Solar cell adpots new technology to improve the efficiency of modules,offers a better aesthetic apperance making it perfect for rooftop installation and application



High Efficiency
High Module conversion efficiency, through innovative manufacturing technology



Low-LightPerformance
Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



Serve Weather Resilience
Certified to withstand: wind load(2400Pa) and snow load (5400Pa)



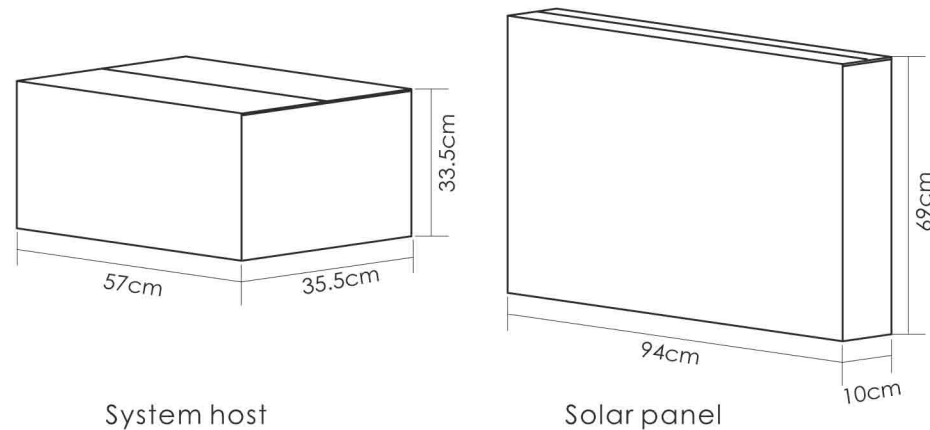
Durability against extreme enviromental conditions
High salt mist and ammonia resistance certified by TUV



0~+5W Positive Tolerance
Detailed information in Electrical Specifications

PRODUCT SPECIFICATION

Model	QKAT1208-SPS9048
Inverter Power	500W
Solar Panel	18V 90W, Polycrystalline
Battery Type	12.8V 48AH, LiFePO4 32700
Charging Time	6-8 hours
Discharging Time	10-24 hours
DC Output	12V, 2PCS
AC Output	220V 50Hz
USB Output	5V 2A, 2PCS
Luminous Efficacy	160 lm/w
LED Lifespan	50000 hours
Material	Metal
Product Size	285*194*267 (System Host)/920*670*30mm (Solar panel)
Warranty	3 Years

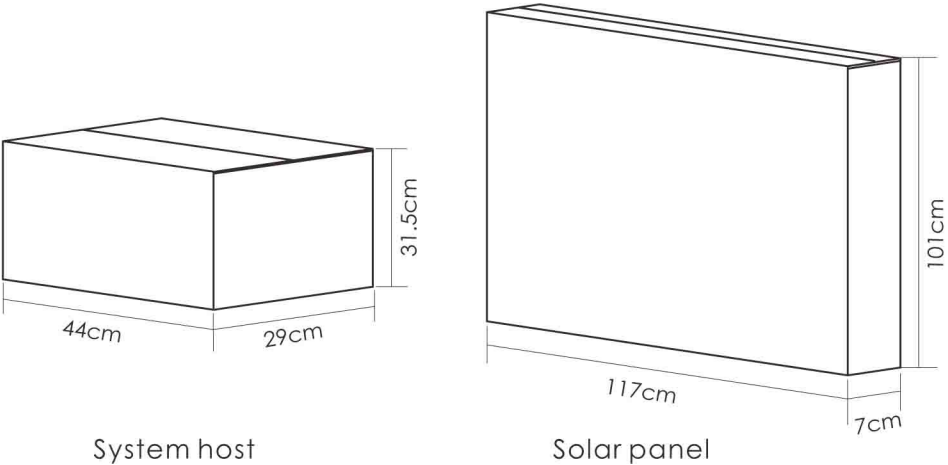
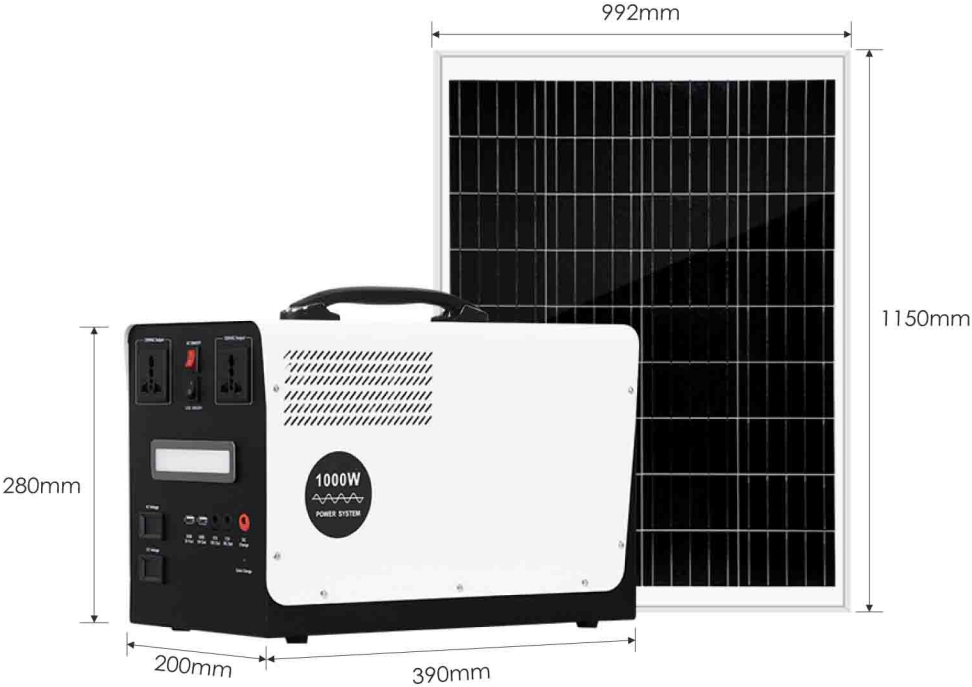


PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)	
		L	W	H				
DQ1208A500-40	500W	57.00	35.50	33.50	2	0.0678	23.10	System host
		94.00	10.00	69.00	2	0.0649	14.20	Solar panel

PRODUCT SPECIFICATION

Model	QKAT1208-SPS18048
Inverter Power	1000W
Solar Panel	36V 180W, Polycrystalline
Battery Type	25.6V 48AH, LiFePO4 32700
Charging Time	6-8 hours
Discharging Time	10-24 hours
DC Output	12V, 2PCS
AC Output	220V 50Hz
USB Output	5V 2A, 2PCS
Luminous Efficacy	160 lm/w
LED Lifespan	50000 hours
Material	Metal
Product Size	390*200*280 (System Host)/1150*992*35mm(Solar panel)
Warranty	3 Years

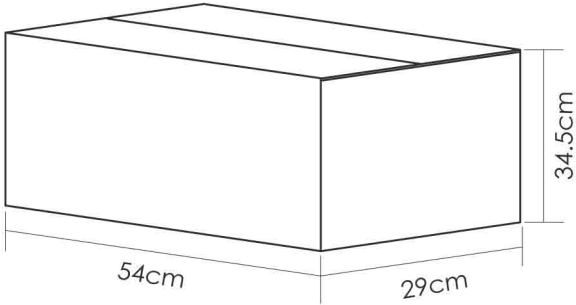


PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)	
		L	W	H				
DQ1208B1000-40	1000W	44.00	29.00	31.50	1	0.0402	17.50	System host
		117.00	7.00	101.00	1	0.0827	11.00	Solar panel

PRODUCT SPECIFICATION

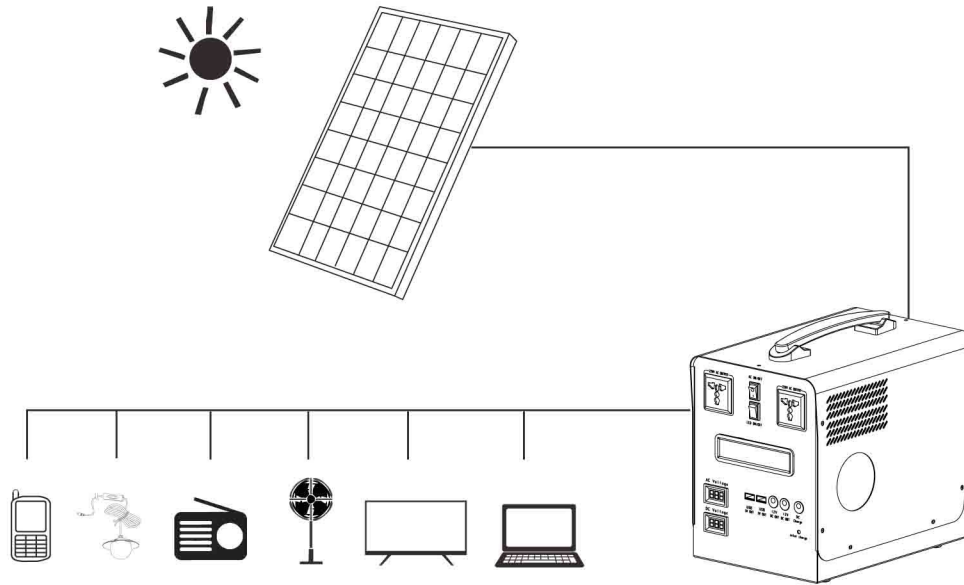
Model	QKAT1208-SPS32560
Inverter Power	1500W
Solar Panel	36V 325W, Polycrystalline
Battery Type	25.6V 60AH, LiFePO4 32700
Charging Time	6-8 hours
Discharging Time	10-24 hours
DC Output	12V, 2PCS
AC Output	220V 50Hz
USB Output	5V 2A, 2PCS
Luminous Efficacy	160 lm/w
LED Lifespan	50000 hours
Material	Metal
Product Size	490*200*315 (System Host)
Warranty	3 Years



PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)
		L	W	H			
DQ1208B1500-40	1500W	54.00	29.00	34.50	1	0.0402	20.4

CONNECTION DIAGRAM



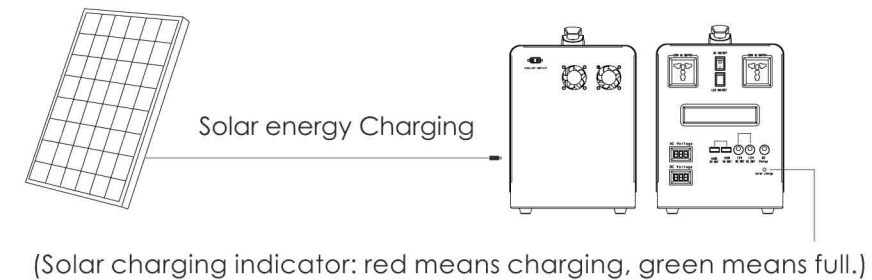
NOTE

- Please use an attached solar panel or charger when charging.
- Please keep away from fire sources or inflammable and explosive materials when charging.
- Please unplug the power supply when it is full.
- Please turn off the inverter switch when not in use.
- It is strictly forbidden to dismantle the product, and do not short-circuit the output of the product.
- If the product emits peculiar smell, heat and other abnormal conditions during charging or storage, please stop charging immediately, and place it in an open place to observe the plug from a distance. After confirming safety, contact the manufacturer or dealer.

INTRODUCTION TO CHARGING

a. Solar Charging

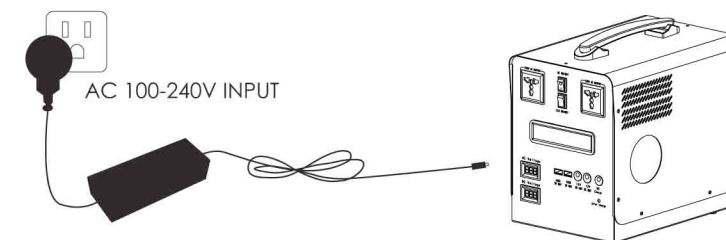
Plug the solar panel terminals into the "☀️" port on the back of the system and charge to 14.6V(500W)/29.2V(1000W) to be considered full.



b. Adapter Charging (Optional)

Step 1. Plug the output terminal of the cable into the "DC charge" port of the system.

Step 2. Insert the AC input plug of the cable into the mains, and it is considered full when charged to 14.6V(500W)/29.2V(1000W) .



APPLICATION

APPLICATION



It's a portable solar power system which is reliable energy source for many applications such as lighting, radios, fans, TVs, computers, refrigerators. The USB port is compatible with all 5V-USB charging devices. It can also be used as a backup power source in emergency situations.

