ALLTOP®
ELECTRONICS

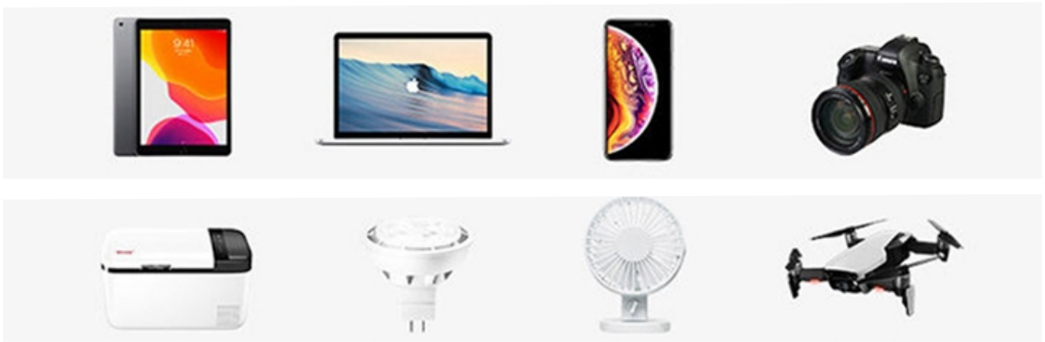
PORTABLE
SOLAR POWER SYSTEM

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/4A), 2*220V AC socket, 2*DC port output (12V), Type-C: 30W*2PCS,support charging multiple devices at the same time. Power your phone, laptop, tablet, lamp, fan, projector, car refrigerator, CPAP machine, drone, switch, camera, etc.

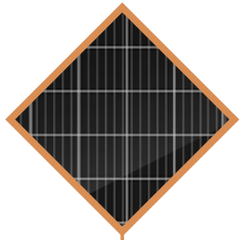


PRODUCT PANEL FUNCTION INTRODUCTION

MULTIFUNCTION IN ONE SYSTEM

PRODUCT DESCRIPTION

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



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;

LED Light

Fast Charging Efficiency

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

Multiple Charging Ports

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			
Operation Temperature Range			
Discharge	-20~60℃		
Charge	-10~60℃		
Storage	-20~60℃		
Max.Discharge Current 77°F(25℃)	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

(Solar panel is an optional which not included in the price)

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/)	-0.400%
Voc Temperature Coefficients(V/)	-0.300%
Isc Temperature Coefficients(A/)	+0.060%
NOCT Nominal Operating Cell Temperature( )	45±2
Operating and Storage Temperature( )	-40~+85
Standard Test Condition(STC)	1.000W/m²;AM 1.5;25+/-2

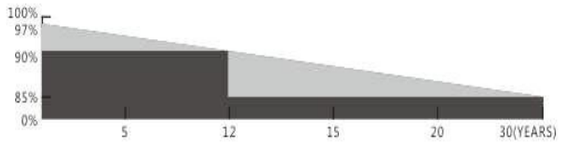
Mechanical characterisrtics

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

CONVERSION
High Efficiency
High Module conversion efficiency, through innovative manufactureing technology

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

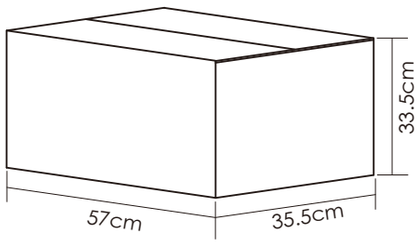
2400Pa
5400Pa
Serve Weather Resilience
Certified to withstand wind load(2400Pa) and snow load (5400Pa)

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

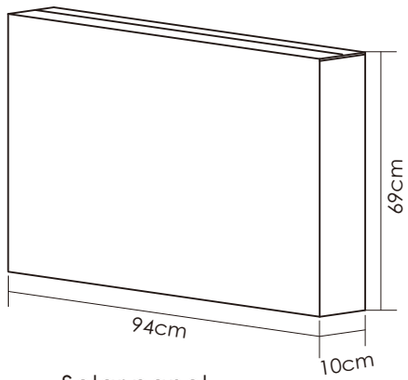
0 to +5W
0-+5W Positive Tolerance
Detailed information in Electrical Specifications

PRODUCT SPECIFICATION

Model	DQ1208A500-53
Inverter Power	500W
Solar Panel	18V 90W, Polycrystalline
Battery Type	12.8V 48AH, LiFePO4
DC Output	12V 5A, 2PCS
AC Output	220V 50Hz
USB Output	5V 4A, 2PCS
Type-C	30W*2PCS
Luminous Efficacy	160 lm/w
LED Lifespan	50000 hours
Material	Metal
Product Size	285*194*267 (System Host)
Warranty	3 Years



System host



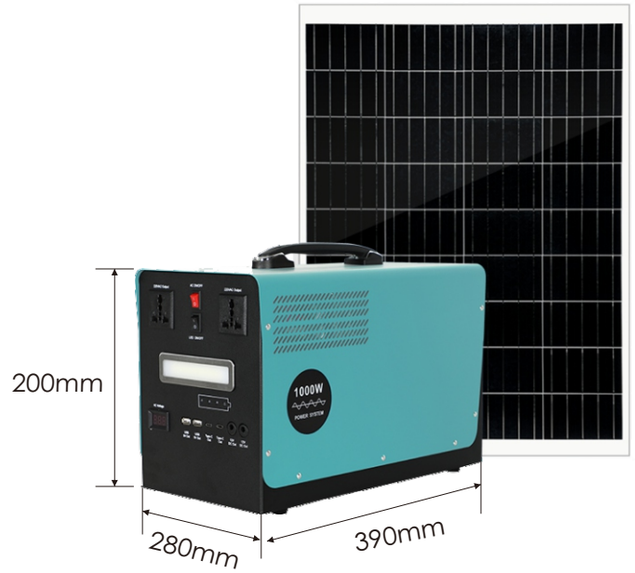
Solar panel

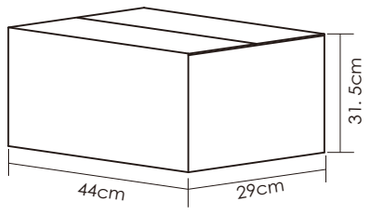
PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)	
		L	W	H				
DQ1208A500-53	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

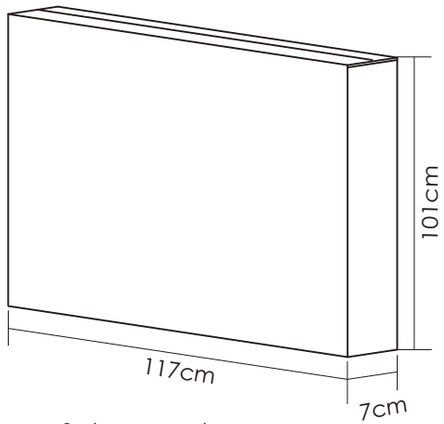
PRODUCT SPECIFICATION

Model	DQ1208B1000-55
Inverter Power	1000W
Solar Panel	36V 180W, Polycrystalline
Battery Type	25.6V 48AH, LiFePO4
DC Output	12V 5A, 2PCS
AC Output	220V 50Hz
USB Output	5V 4A, 2PCS
Type-C	30W*2PCS
Luminous Efficacy	160 lm/w
LED Lifespan	50000 hours
Material	Metal
Product Size	390*200*280 (System Host)
Warranty	3 Years





System host



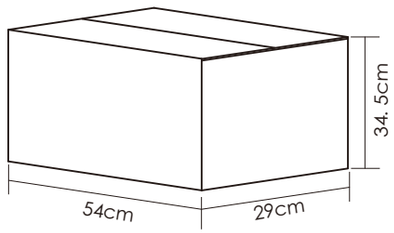
Solar panel

PACKAGING SPECIFICATION

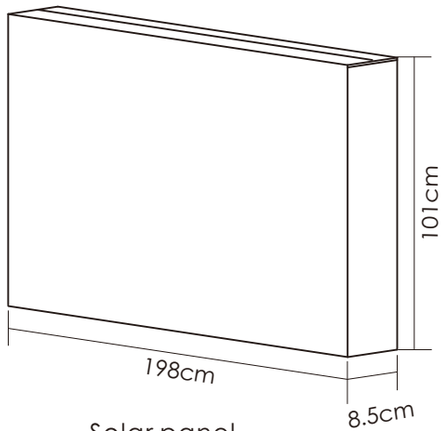
P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)	
		L	W	H				
DQ1208B1000-55	1000W	44.00	29.00	31.50	1	0.0402	17.50	System host
		117.00	7.00	101.00	1	0.0827	11.00	Solar panel

PRODUCT SPECIFICATION

Model	DQ1208C1500-51
Inverter Power	1500W
Solar Panel	36V 325W, Polycrystalline
Battery Type	25.6V 60AH, LiFePO4
DC Output	12V 5A, 2PCS
AC Output	220V 50Hz
USB Output	5V 4A, 2PCS
Type-C	30W*2PCS
Luminous Efficacy	160 lm/w
LED Lifespan	50000 hours
Material	Metal
Product Size	490*200*315 (System Host)
Warranty	3 Years



System host

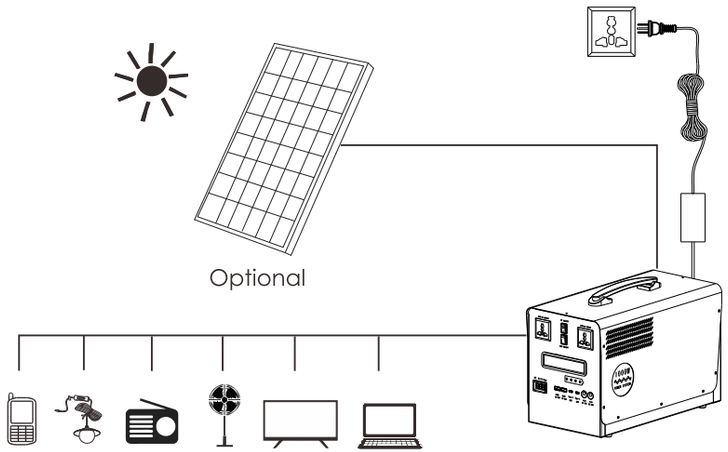


Solar panel

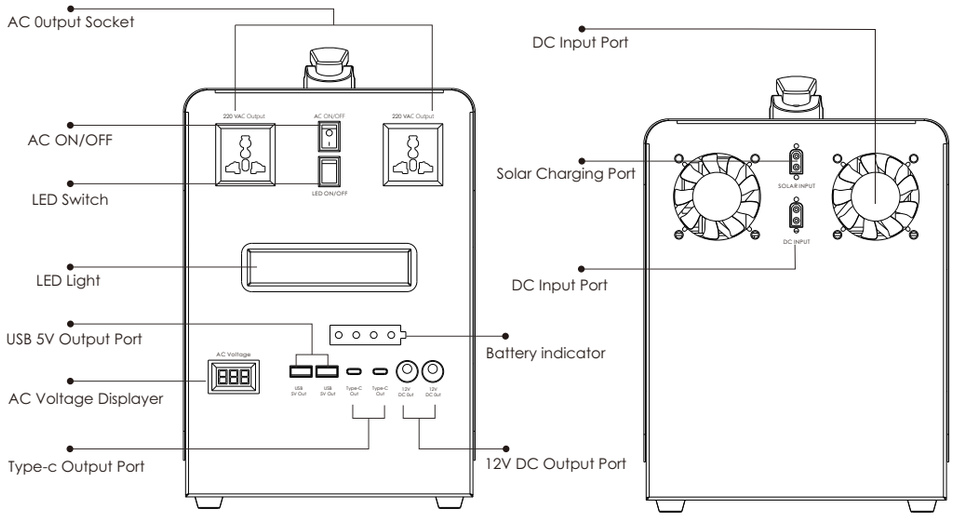
PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN (KGS)	
		L	W	H				
DQ1208C1500-51	1500W	54.00	29.00	34.50	1	0.0540	20.4	System host
		198.00	8.50	101.00	1	0.1700	20.5	Solar panel

CONNECTION DIAGRAM



Product panel function introduction

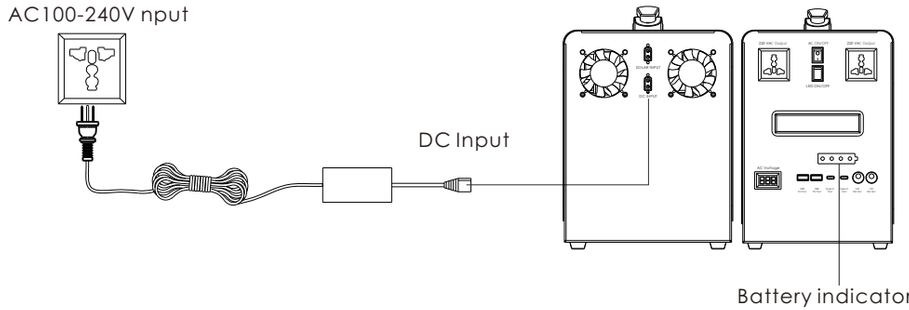


INTRODUCTION TO CHARGING

a. Mains charging

STEP1 Put the AC input plug of the adapter into the mains

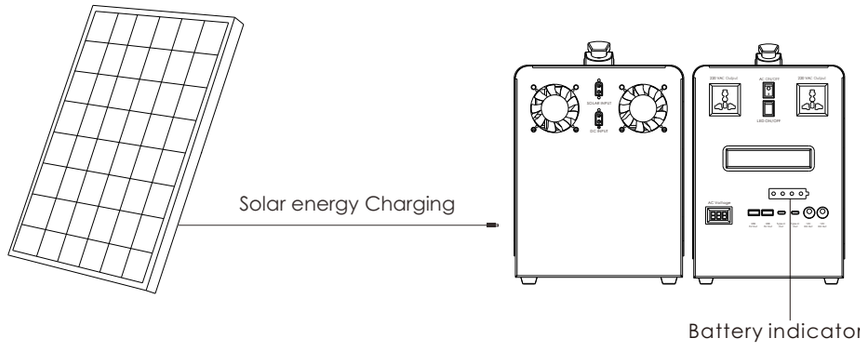
STEP2 Put the DC output terminal of the adapter into the "DC input" port onthe host.



b. Solar Charging

Insert the solar panel terminals into the“ ”Port charging.

SOLA RINPUT



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.