



# PORTABLE SOLAR POWER SYSTEM

300W/500W



CHARGE TIME



BATTERY LIFE



BATTERY



OPERATING TEMP



REPLACEABLE



RATED LIFE



## PRODUCT OVERVIEW

Solar power system is an off-grid solar generator designed to provide stable and reliable power to homes and communities or areas without or even electricity without access to grid power. The solar system is characterized by convenient movement , easy installation , and reliable performance, which is very suitable for situations requiring emergency power.

- 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.ch is very suitable for situations requiring emergency power.



PRODUCT DETAIL



Strong compatibility can power a variety of devices



PRODUCT DESCRIPTION

Multiple Charging Ports

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; and includes wireless fast chargers, For cell phones, iPads and wireless earbuds

LED display screen

The LCD screen of power station is very clearly to watch even if in bright environment. The battery capacity is displayed by number, so it is possible to predict the operating time. Battery management system (BMS) can voltage and current control, temperature control and more advanced safety operations, ensure ultra-safety for you and your devices.

Fast Charging Efficiency

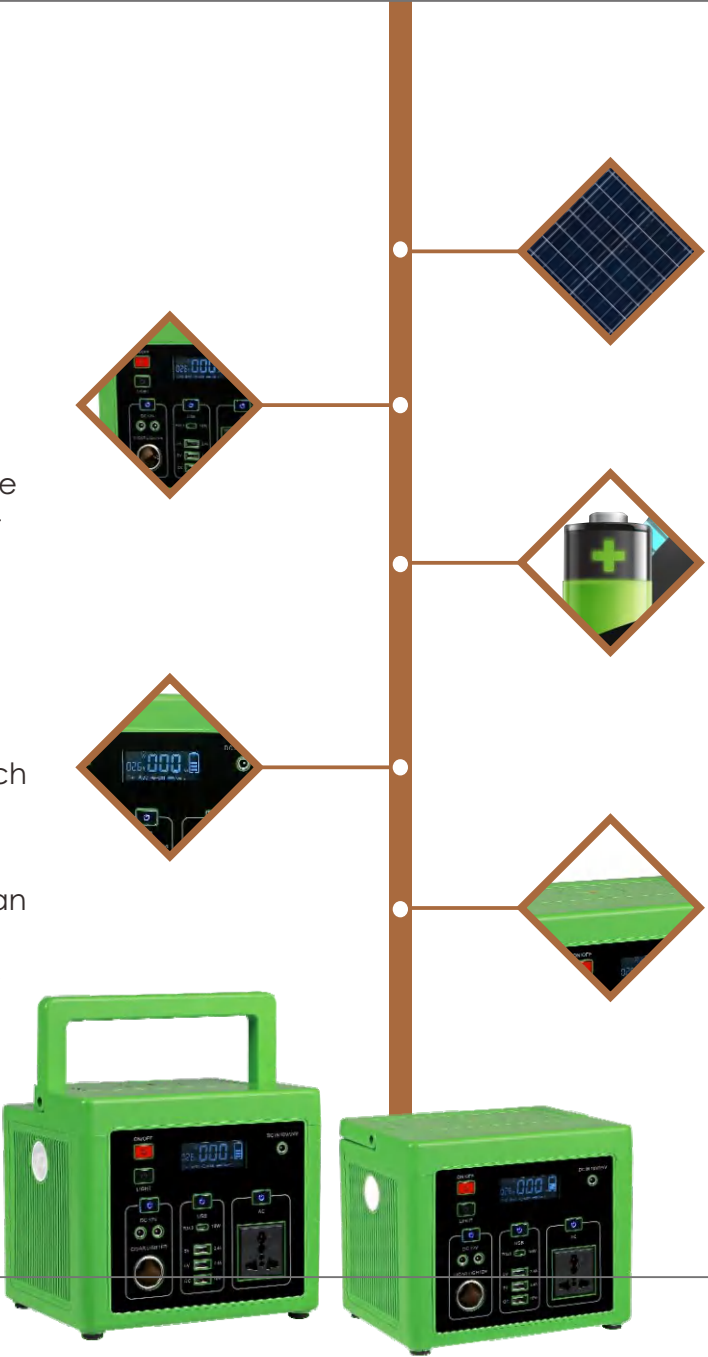
High quality solar panel, up to 20% of conversion efficiency full charge in about 6-8 hours.

Large Capacity Is More Durable

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

Portable

The handle is made of material that is not easy to fall off, multifunctional and portable design for wider practical scenes



BATTERY SPECIFICATION



DesignLife	6-8 years	
Nominal Voltage	12.8V	
Nominal Capacity	18AH	36AH
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)	1200A(5s)	
Short Circuit Current	3000A	

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)	60W/90W
Maximum Power Voltage(Vmp)	18
Maximum Power Current(Impp)	3.33/5
Open Circuit Voltage(Voc)	22.61/23.25
Short Circuit Current(Isc)	3.5/5.17
Cells Efficiency( % )	18.37/18.85
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

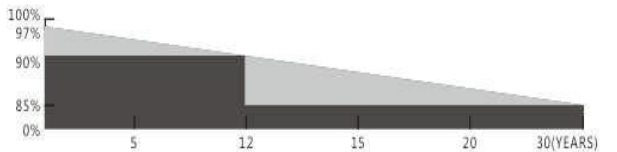
Mechanical characteristcs

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 adopts 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	DQ1411A300-01		DQ1411B500-01	
Solar Panel	18V 60W,Polycrystalline		18V 90W,Polycrystalline	
Battery Type	LiFePO4 12.8V 18AH		LiFePO4 12.8V 36AH	
	(Solar panel is an optional which not included in the price)			
Charging Time	6-8 Hours			
Discharging Time	1-30days(depend on the power of device)			
AC Input	10V/24V*1PCS			
DC Output	12V 5A*2PCS			
Ciger lighter	12V 5A*1PCS			
AC Output	220V*1PCS			
USB Output	12W*2PCS+18W*1PCS			
PD3.0 Output	18W*1PCS			
Material	Metal+ABS			
Product Size	219*173*186mm(System Host)		241*216*186mm(System Host)	
Warranty	3 Years			



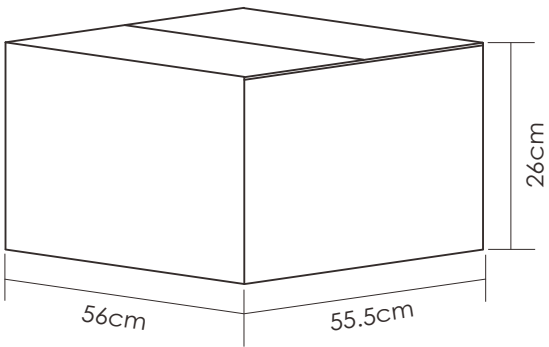
DQ1411A300-01 300W



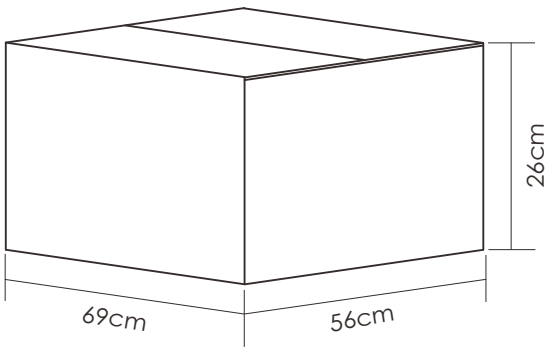
DQ1411B500-01 500W

PACKAGING SPECIFICATION

P/N	Power	Packing Size(CM)			PCS/CTN	CBM/CTN
		L	W	H		
DQ1411A300-01	300W	56.00	55.50	26.00	4	0.0801
DQ1411B500-01	500W	69.00	56.00	26.00	4	0.1005



DQ1411A300-01



DQ1411B500-01

APPLICATION





APPLICATION



CPAP Machine

Road trip

Hurricane Power Outage

Camping/Trip