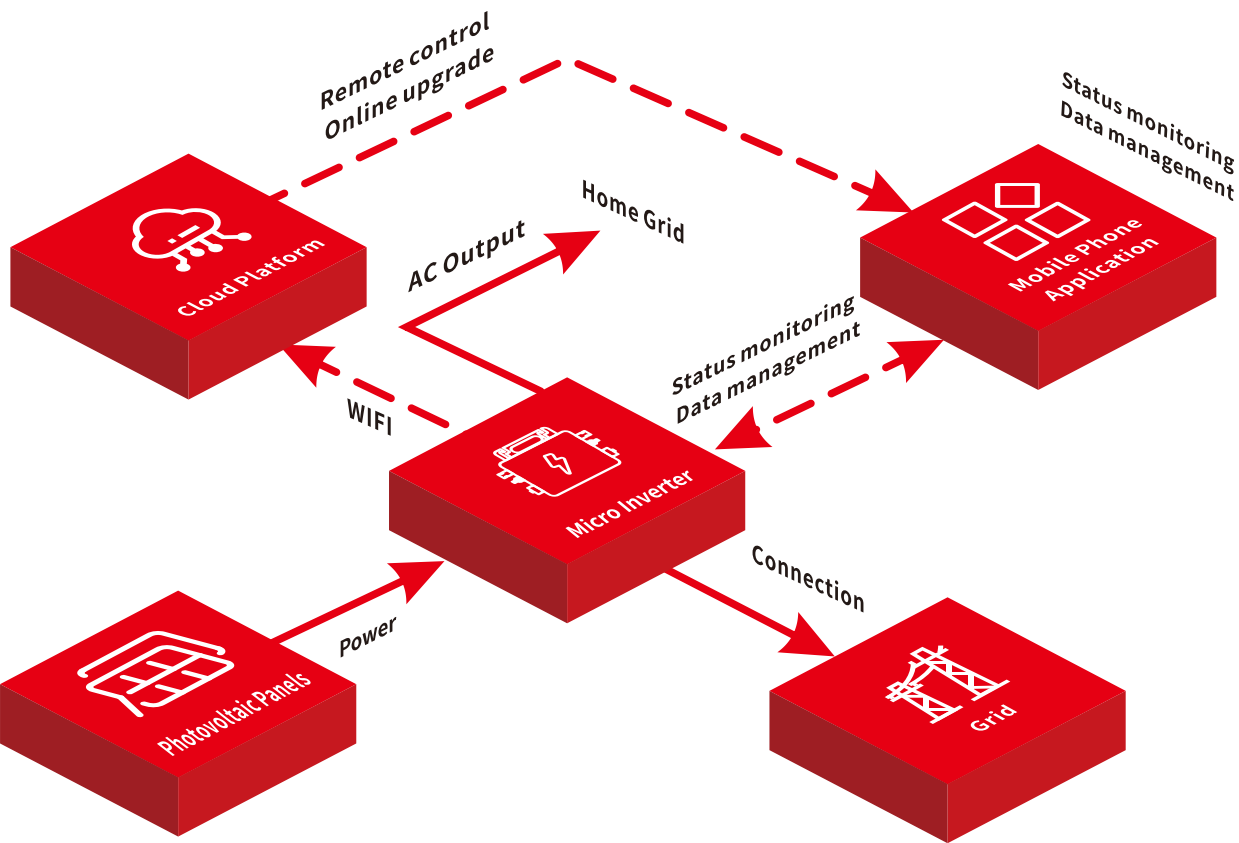


The Green Energy Solution Provider



Construction of Micro-Inverter

The Micro-Inverter Board (PCB-A) is an expansion board with several electronic components for connection to other electronic components, the Micro-Inverter Board consists of the following components Composition.

Power Supply

The power supply in the inverter board usually uses a programmable fan cooling output through the wall external power supply to stabilize the output current and voltage.

Power Converter

The converter is used to convert the high-voltage input into a stable low-voltage output with a higher capacity and stability of the junction capacitor.

Junction Capacitor

The junction capacitor is used to absorb and stabilize the current to prevent damage to the entire system from transient suppression in the power converter.



Thermal Control

Switch Temperature SensorIt' s used to detect whether the temperature of the heatsink exceeds the allowable value, in order to protect the whole system from damage caused by over heating

Power Transistor

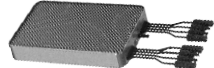
This is a high power triode transistor used to improve the overall system power conversion efficiency and help reduce the system branch current.

Driver

Used to convert low frequen cocurrent to high frequency current in order to better improve the power conversion efficiency.

Contents

Micro Power Station PV-HUB

PH1600	1	
Micro Power Station Core Brain		
PHP100	2	
Multi-function battery pack		

Micro Inverter EM Series

EM400	3	
400W Micro Inverter		
EM800	4	
800W Micro Inverter		
EM1200	5	
1200W Micro Inverter		
EM2000	6	
2000W Micro Inverter		

IB Series

EX1600	7	
Portable Inverter Box		

Portable Power Station EX Frontier Series

EX140	8	
Multiple two-way super fast charging 140W Power bank		

Micro Inverter

Micro-Inverter is a power conversion device used to convert direct current (DC) to alternating current (AC).

The primary function of a micro-inverter is to convert DC power to AC power to meet the power needs of AC powered devices.

The system consists of an array of micro-inverters that convert direct current(DC) to alternating current(AC) and feed it into the public grid.

The system is designed to instal one micro-inverter for every two PV modules.

This setup enables the user to directly control the efficiency of the individual PV module arraysincreasing the flexibility and availability of the system depend ability.



High Efficiency



Multiple Protection



High Stability



Compact Size



IP65~IP67 Waterproof



Optimized Smart Algorithms



Low-Light Locking Function

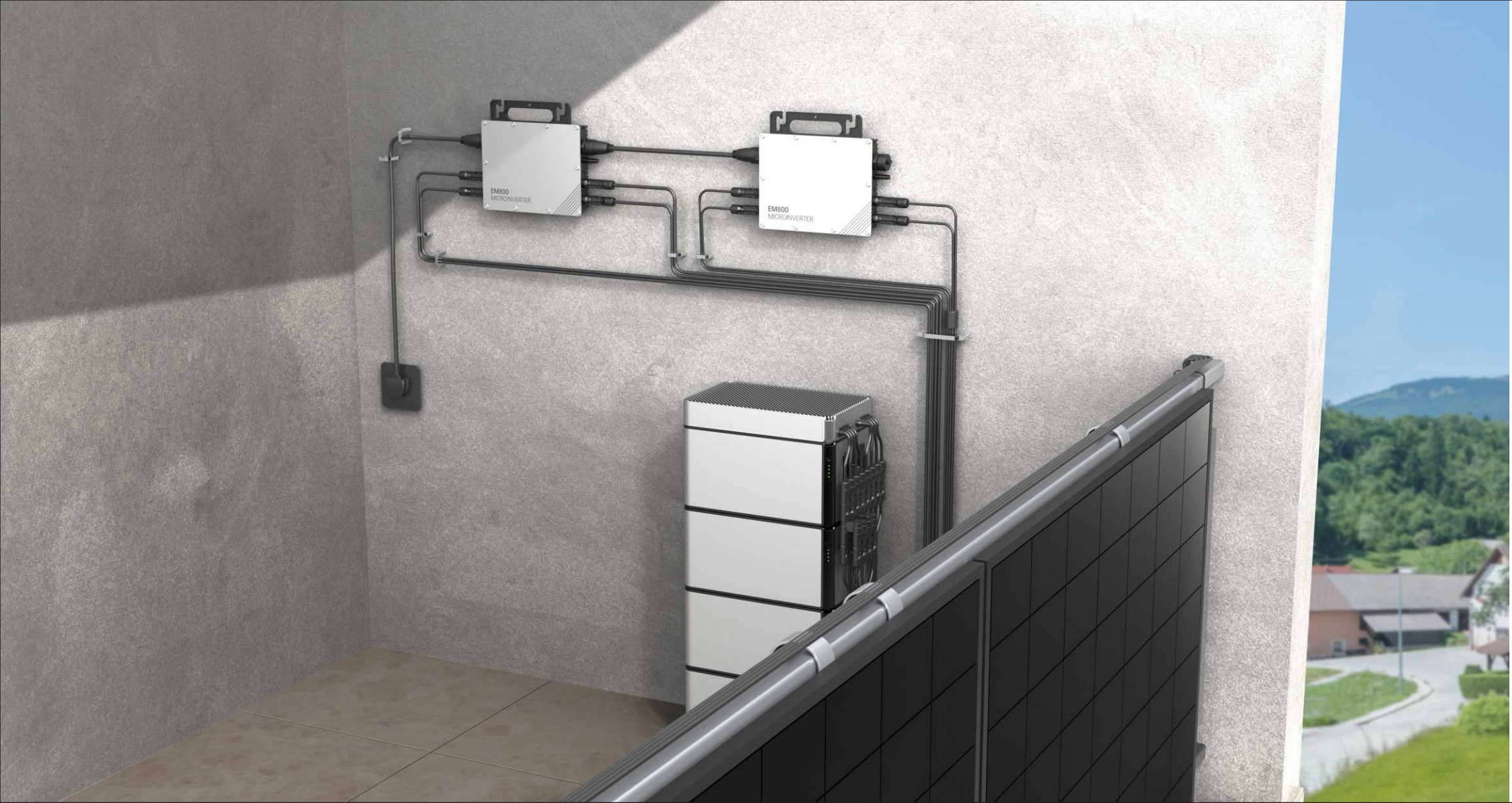


Auto Voltage Recognition



SOLAR PANELS
400W EACH





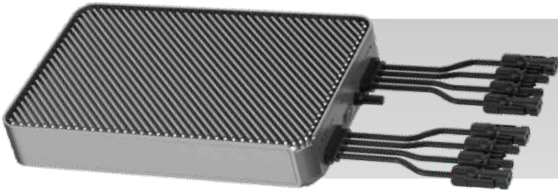
A micro power station is a downsized generating facility composed of components such as solar panels, PV hubs, battery packs, and micro-inverters. It is a flexible, portable, and sustainable power generation solution.

PH1600

- DIY free assembly combination
- 1600W high power adjustable output

PHP100

- 960wh Lithium Iron Phosphate up to 4 battery packs at the same time
- 1600W high power adjustable output



PH1600

Micro Power Station Core Brain

Parameters	Recommended. PV Module:	300-580W*2
	MPPT Voltage Range:	18V-60V
	Startup Voltage:	18V
	Max. Input Voltage:	60V
	Max. DC Short Circuit Current:	20A
	Max. Continuous AC Output Power:	800W*2
	Max. Continuous Output Current:	23A
	Max. Efficiency:	96%
	Dimension (W*D*H):	320*200*55mm
	Communications:	485/Wi-Fi / Bluetooth
	Protection Grade:	IP65
	Warranty:	10 Years
	Weight:	4.7Kg
	Standards:	CE-LVD/CE-RED/UL/FCC/IEEE 1547/CA65

Compact size
IP65

Supports high
power output

2 bi-directional
inputs and
outputs

Multiple power
modes



PHP100

Multi-function battery pack

Parameters	Nominal Capacity:	1024Wh
	Nominal Voltage:	52V
	Working Voltage Range:	40-58.44v
	Battery Type:	LiFePO4
	Dimension (W*D*H):	320*200*183mm
	Weight:	9kg
	Compatible:	4
	Operating Ambient Temperature Range:	-20°~65°
	Protection Grade:	IP65
	Cooling:	Nature Cooling
	Warranty:	10 Years
	Standards:	CE/ROHS/UL/TUV-US/IEC62133/ EN62133

Compact and
portable

Multi-function
battery pack

LiFePO4 Safe
and reliable

IP65



MAXIMUM POWER UP TO 800W
800W MICRO-INVERTER

SUITABLE FOR SOLAR PRODUCTION WITH UP TO
TWO SOLAR PANELS UP TO A POWER OF 400W RACH

Recommended solar panel input power275W-400W

Operatong voltage range18-55V

Maximum DC input current14A

MICRO-INVERTER INSTALLATION*1

MICRO-INVERTER INSTALLATION*2

MICRO-INVERTER INSTALLATION*3/MORE

120VAC:5 SET MAX
230VAC:10 SET MAX



EM400

400W Micro Inverter

- Conversion Rate
Higher Than 97%
- Low
Light Lock
- Automatic Voltage
Identification
- IP67
Waterproof

VDE 0126-1-1;VDE-AR-N-4105;VDE V 0124-100
EMC:EN 50549-1:2019, EN 50549-2:2019
EN 61000-6-3:2007 + A1:2011 + AC2012
EN 61000-6-1:2007

Parameters

Temperature Range: -40°C to +65°C
Recommend Use Panels: 200-430W*1
Output Voltage Mode: 120/230V Auto switch
Pv Open Circuit Voltage: 33-60V
Operating Voltage Range: 16-60V
Short-circuit Current: 18A
Maximum Working Current: 14A
Heat Dissipation Mode: Self-cooling
Communication Mode: 433Mhz /WiFi/ IOT
Power Transmission Mode: Reverse transmission,Load priority
Monitoring System: APP
Waterproof Grade: IP67
Electromagnetic Detection: EN50081.part1 EN50082.Part1.CSA STD. C22.2 No.107.1
CEC peak efficiency: 96%

Size

Product Size: 181*197*39.5mm
Packing Size: 245*202*60mm
Box Size: 450*395*345mm (15PCS)

Weight

Product Weight: 0.82kg
N.W/G.W: 0.82kg/1.28kg
Carton Weight: 19.5kg



EM800

800W Micro Inverter

- Conversion Rate
Higher Than 97%
- Low
Light Lock
- Automatic Voltage
Identification
- IP67
Waterproof

VDE 0126-1-1;VDE-AR-N-4105;VDE V 0124-100
EMC:EN 50549-1:2019, EN 50549-2:2019
EN 61000-6-3:2007 + A1:2011 + AC2012
EN 61000-6-1:2007

Input Data(DC)

solar panel input power: 275-530W*2
Maximum DC input voltage: 60V
MPPT tracking range: 16-60V
MPPT tracking accuracy: >99.5%
Maximum DCinput current: 14A*2

Output Data(AC)

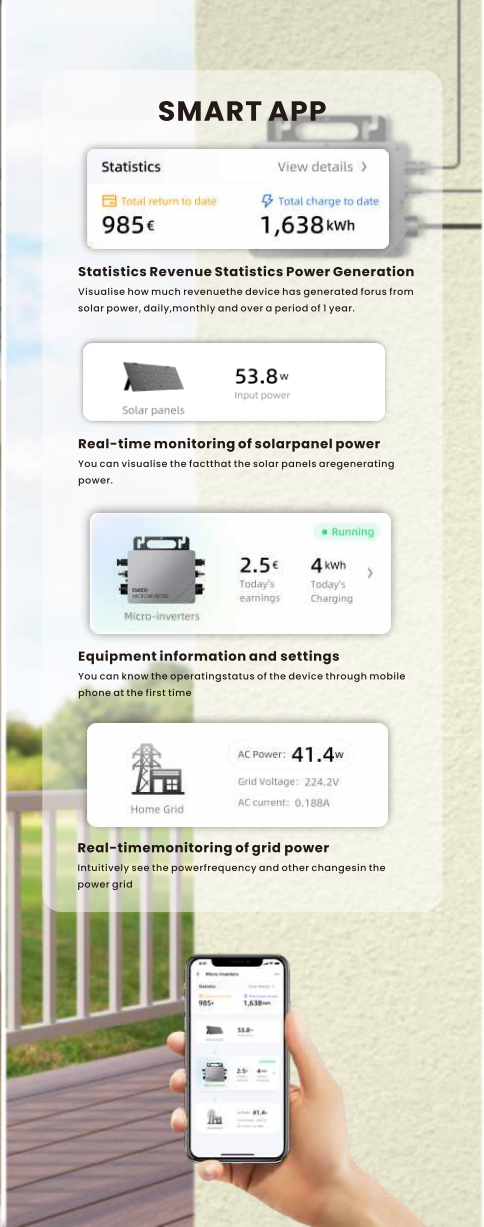
Maximum output power: 800W
Rated output voltage: 230V
Output voltage range: 190-270V
Rated AC current: 3.47A
Rated output frequency: 50Hz
Output frequency range: 47.5-50.5Hz
Maximum number of links: 230VAC:10set
THD: <5%
Power factor: >0.99

Size

Product Size: 315*226*45mm
Packing Size: 346*259*105mm
Box Size: 600*368*295mm(5PCS)

Weight

Product Weight: 1.56kg
N.W/G.W: 1.56kg/2.8kg
Carton Weight: 14.00kg



EM800S

800W MicroInverter

Conversion Rate
Higher Than 97%

Low
Light Lock

Automatic Voltage
Identification

IP67
Waterproof


VDE 0126-1-1;VDE-AR-N-4105:VDE V 0124-100
EMC:EN 50549-1:2019, EN 50549-2:2019
EN 61000-6-3:2007 + A1:2011 + AC2012
EN 61000-6-1:2007

Parameters

Temperature Range: -40°C to +65°C
Recommend Use Panels: 2*500W
Output Voltage Mode: 120/230V
Pv Open Circuit Voltage: 30-60V
Operating Voltage Range: 16-60V
Short-circuit Current: 2*14A
Maximum Working Current: 2*18A
Heat Dissipation Mode: Self-cooling
Communication Mode: 433Mhz /WiFi/ IOT
Power Transmission Mode: Reverse transmission,Load priority
Monitoring System: APP
Waterproof Grade: IP67
Electromagnetic Detection: EN61000-6-1:2007 EN6100-6-3:2007+ A1:2011+AC:2012
CEC peak efficiency: 96%

Size

Product Size: 227*198*46.5mm
Packing Size: 430*375*140mm
Box (4pcs) Size: 430*405*380mm (4PCS)

Weight

Product Weight: 3.0kg
N.W/G.W: 3.0kg/4.0kg
Carton Weight: 16.5kg



EM2000

2000W MicroInverter

Conversion Rate
Higher Than 97%

Low
Light Lock

Automatic Voltage
Identification

IP67
Waterproof


VDE 0126-1-1;VDE-AR-N-4105:VDE V 0124-100
EMC:EN 50549-1:2019, EN 50549-2:2019
EN 61000-6-3:2007 + A1:2011 + AC2012
EN 61000-6-1:2007

Parameters

Temperature Range: -40°C to +65°C
Recommend Use Panels: 4*275-530W
Output Voltage Mode: 120/230V
Pv Open Circuit Voltage: 30-60V
Operating Voltage Range: 16-60V
Short-circuit Current: 4*18A
Maximum Working Current: 4*14A
Heat Dissipation Mode: Self-cooling
Communication Mode: 433Mhz /WiFi/ IOT
Power Transmission Mode: Reverse transmission,Load priority
Monitoring System: APP
Waterproof Grade: IP67
Electromagnetic Detection: EN61000-6-1:2007 EN6100-6-3:2007+ A1:2011+AC:2012
CEC peak efficiency: 96%

Size

Product Size: 342*223*50 mm
Packing Size: 430*375*140mm
Box Size: 430*405*380mm (4PCS)

Weight

Product Weight: 3.0kg
N.W/G.W: 3.0kg/4.36kg
Carton Weight: 18.38kg



EX1600

Portable Inverter Box

- Off-grid inverters
- Compact and portable
- Expandable Battery Pack
- Home Plugs

Specifications	GER?EU?US?UK?CN?AUS	
Interface	7 Interfaces 3*AC?2*USB-C?2*USB-A	
Input	AC:	1600W
	XT60 :	1600W
	USB:	100W
Output	AC:	3*1600W
	XT60:	1600W
	USB-C:	2*100W
	USB-A:	2*22.5W
Battery	Battery Type:	Ternary lithium battery(LiNiC)
	Battery Capacity:	158Wh/43200mAh
Size	Product Size	320*200*87mm



EX140

Multiple two-way super fast charging
140W Power bank

- 630g Weight
- 1500+ Devices
- 140W Fast Charge/Release
- Be Allowed On Airplanes

Interface	3 Interfaces 1*USB-A,2*USB-C	
Input	USB-C1:	140W Max
	USB-C2:	140W Max
	USB-A1:	22.5W Max
	USB-C1:	140W Max
Output	USB-C2:	140W Max
	Battery Type:	Ternary lithium battery(LiNiC)
	Battery Capacity:	88.56Wh/24600mAh
	Product Weight:	630g
Weight	N.W/G.W:	630g/780g
	Carton Weight:	20kg
	Product Size:	156*50*53mm
	Packing Size:	180*125*60mm
Size	Carton Size:	380*272*280mm (24PCS)
	Pieces per Container:	13120PCS(20` GP)
Packing info		





Support OEM/ODM Customization

Cross-Border Supply Source Factory

🔌 Application / 📶 Wifi / 📶 Bluetooth



Support Socket Customization For Different Countries:

EU/UK/US/JP/CN/AUS/UNIVERSAL STANDARD

Various Certifications:

MSDS/UN38.3/PSE/CE/FCC/ROHS/UL/VDE/EMC/METI/Ocean Shipping

