

PYSUN



Micro Energy Storage System

Product Catalog

Join PYSUN for the green intelligent era!

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1

BD2200 - Battery



Compatible with 99% of inverters.

01

Massive capacity

PYSUN BD2200 is the ideal Match for 600/800W Micro Inverters with its 2.15kWh Capacity.



200W Bulb
10.8h



Refrigerator
10.8h



Television
19.5h



Computer
21.5h

Compatible with 99% of balcony solar system

Whether you have existing solar panels or a micro-inverter, BD2200 ensures seamless compatibility, integrating flawlessly with your current setup.



Unmatched durability, enduring lifespan

Experience the longevity of our 6000-cycle LFP battery, providing an exceptional lifespan of up to 10years.



Enormous 1500W MPPT input

No Comparison: Eternity BD2200 Boasts an Unmatched MPPT Input, Setting It Apart from Other Brands.



PYSUN
1500W



Brand 1
800W



Brand 2
1000W

Smarten up your power

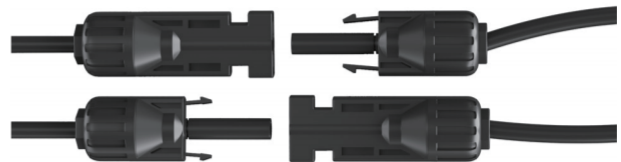
Maximize your power's potential with our smart app for remote monitoring, control, and upgrades.



- Battery Percentage
- Input Power
- Battery Reserve Setting
- Output Power
- Remote Power ON / OFF
- Firmware Upgrade
- ...

No installation required

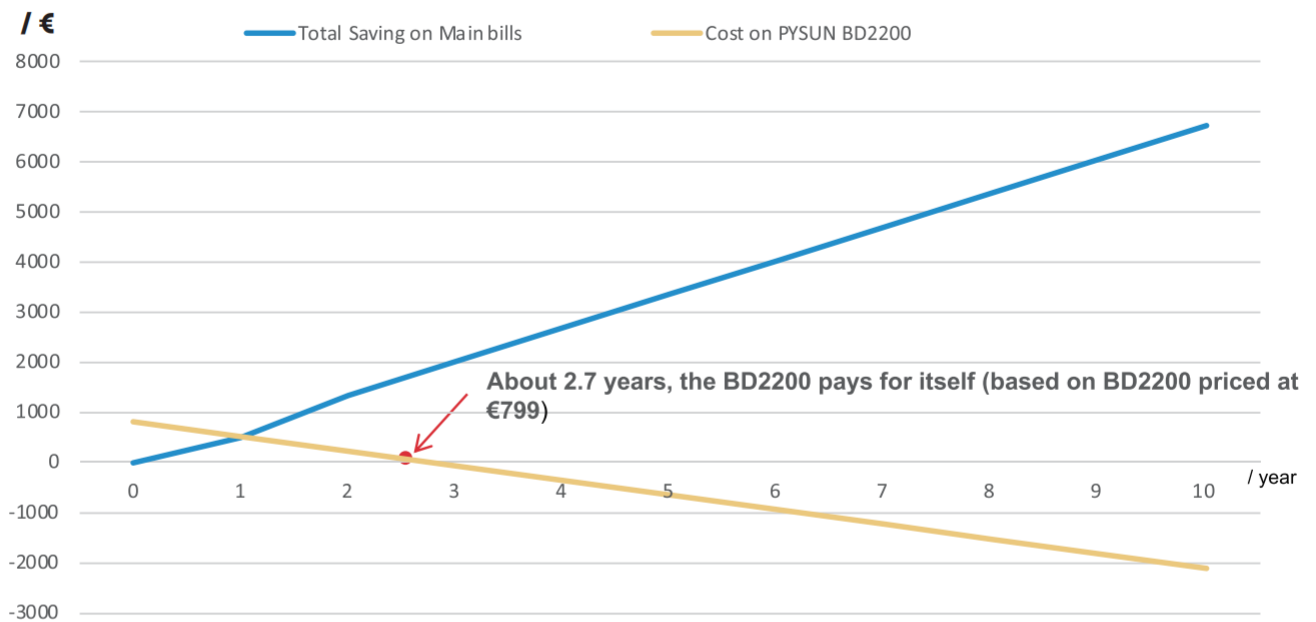
Plug & Play: Just let the BD2200 into your existing solar system on the balcony, and it's ready to work seamlessly.



Minutes of plug-and-play installation

Chart on Savings on Main Bills

UP TO €3212



01

10 Years

Battery Specifications:

Battery Type	LFP
Capacity	2150Wh
Lifecycle	6000 cycles to 80%
Battery voltage platform	3.2V
Single cell capacity	24Ah
Pack type	14 in series 2 in parallel
Protection Class	IP65

Input

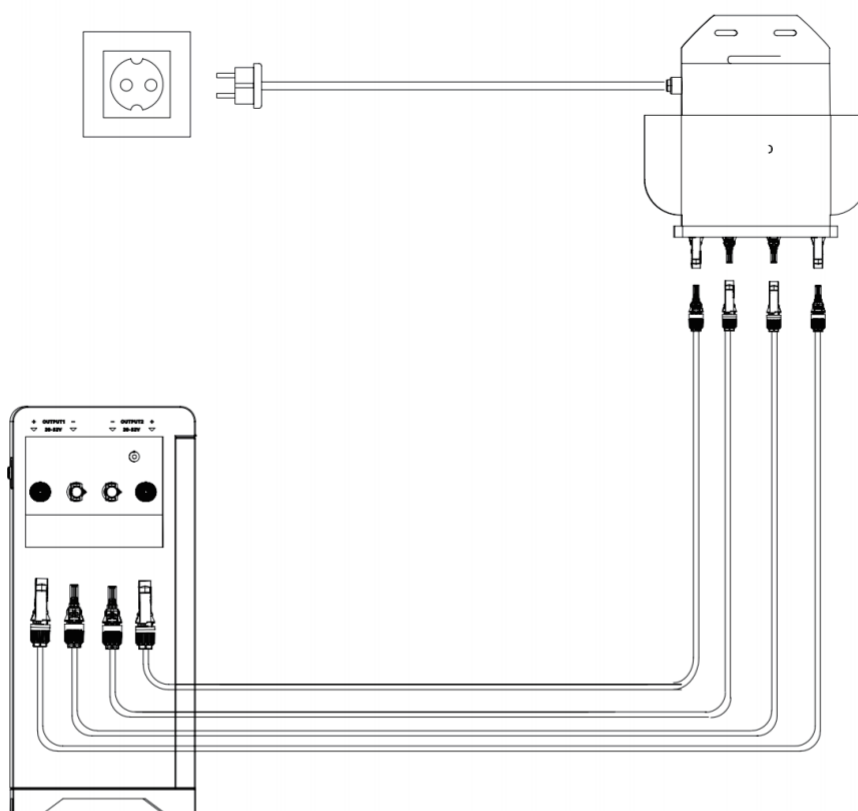
Port Type	Female connector is positive, Male connector is negative (Two sets of MC4)
Input voltage range	Min 12V to Max 60V
Charging current	Max 23A
Mppt Input Power	750W * 2

Output

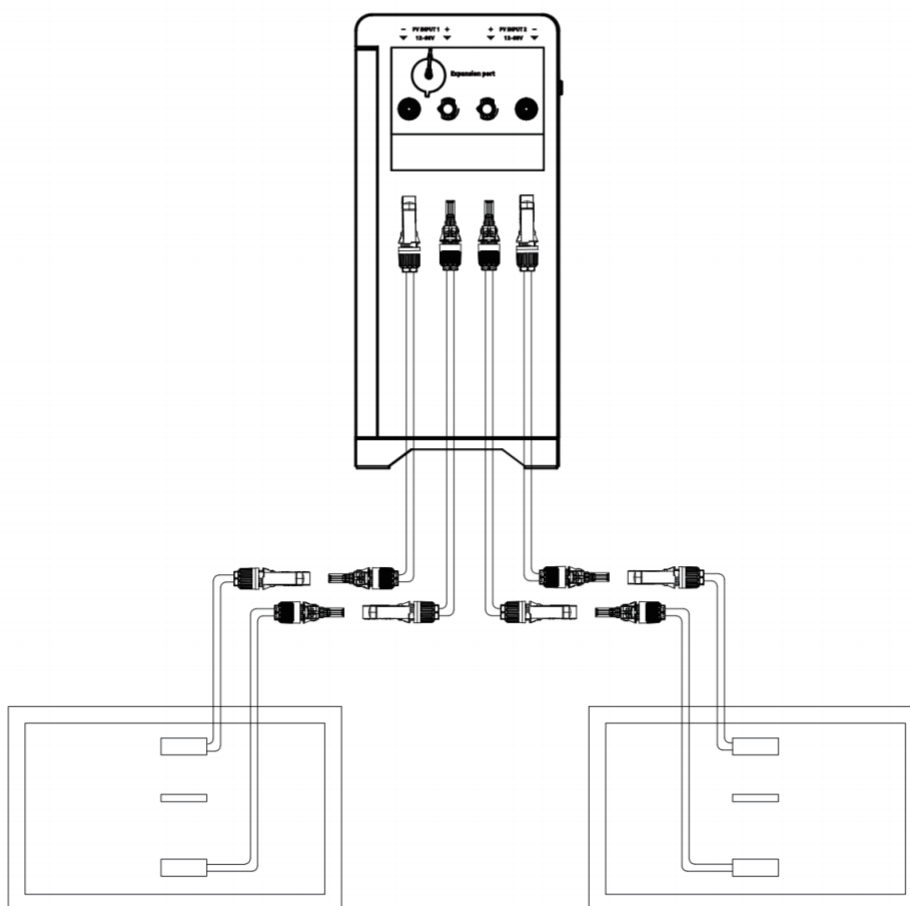
Port type	Female connector is positive, Male connector is negative (Two sets of MC4)
Output Voltage Range	Min 25V to Max 52V
Rated Output Current	16A
Rated Output Efficiency	96%
Output Power	400W * 2

03

1. Connected to microinverter

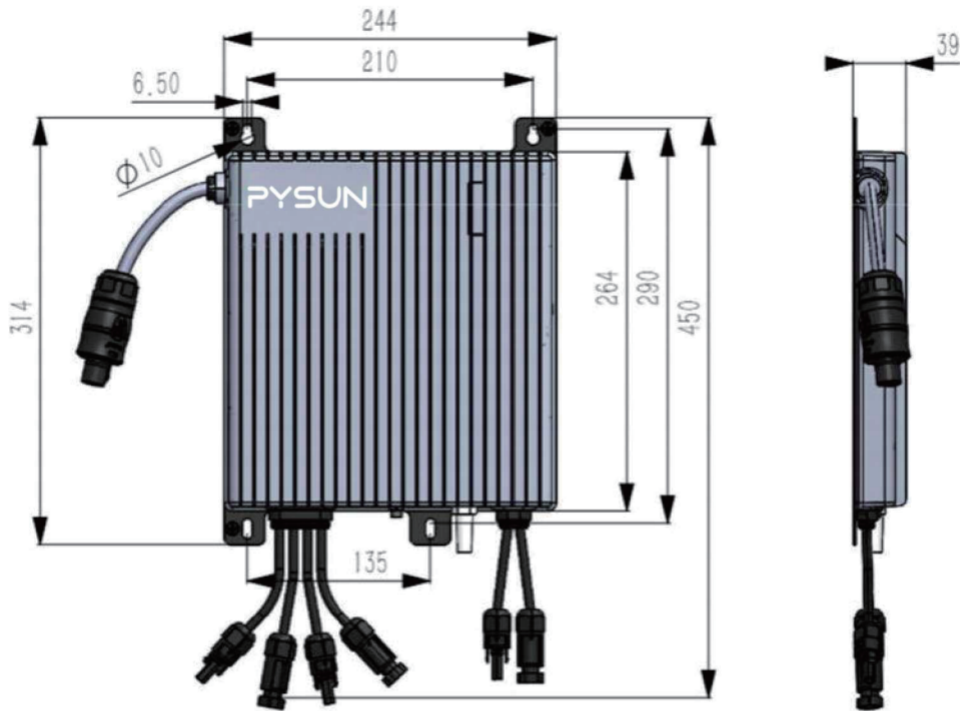


2. Connected to microinverter



2

Micro Energy Storage System - IDH800 + BAT Module



05

PV Input PV		Model:IDH800
Recommended. PV Module		2 X 600 W
MPPT Voltage Range		22 – 55 V
Starup Voltage		24 V
Max. Input Voltage		60 V
Max. DC Short Circuit Current		20 X 2 A
PV Overvoltage Protection Category		II
Output AC		
Max. Continuous AC Output Power		800 VA
Rated AC Output Voltage		230 V
Max. Continuous Output Current		3.48 A
Nominal Frequency		50 / 60 Hz
Power Factor @ full load		>0.99
THD @ rated power		<3%
AC Overvoltage Protection Category		III
Max. efficiency		97.30%
Input / Output Battery		
Nominal Capacity		54 Ah
Nominal Energy		2.7648 kWh
Nominal Voltage		51.2 V
Working Voltage Range		44.8 ~ 57.6 V
Max Charge / Discharge Current		54 A
Battery Data		
Battery Type		LiFePO4
Cycle Life		6000 times
Protection Class		IP65
Battery Voltage		40 – 60 Vdc
Max Charge / Discharge Current		30 / 20 A
Max Charge / Discharge Power		1000 / 1000 W
Dimension (W*D*H)		521.5 X 255.5 X 130 mm
Weight		23.5 kg
General Data		
Opearting Ambient Temperature Range		-40 ~ + 65 °C
Relative Humidity Range		0 – 100%
Communication Method		WIFI
Protection Class		IP65
Cooling		Natural convection
Dimension (W*D*H)		244 x 315 x 39 mm
Weight		4.5 kg

3

Micro Energy Storage System - IDS1000 + Inverter+ BAT Module



IP65
Waterproof



-40-65°C
Ambient
Temperature



6000+
High
Cycle
Times



Intelligent
Monitoring
Via
App



10 years
Warranty



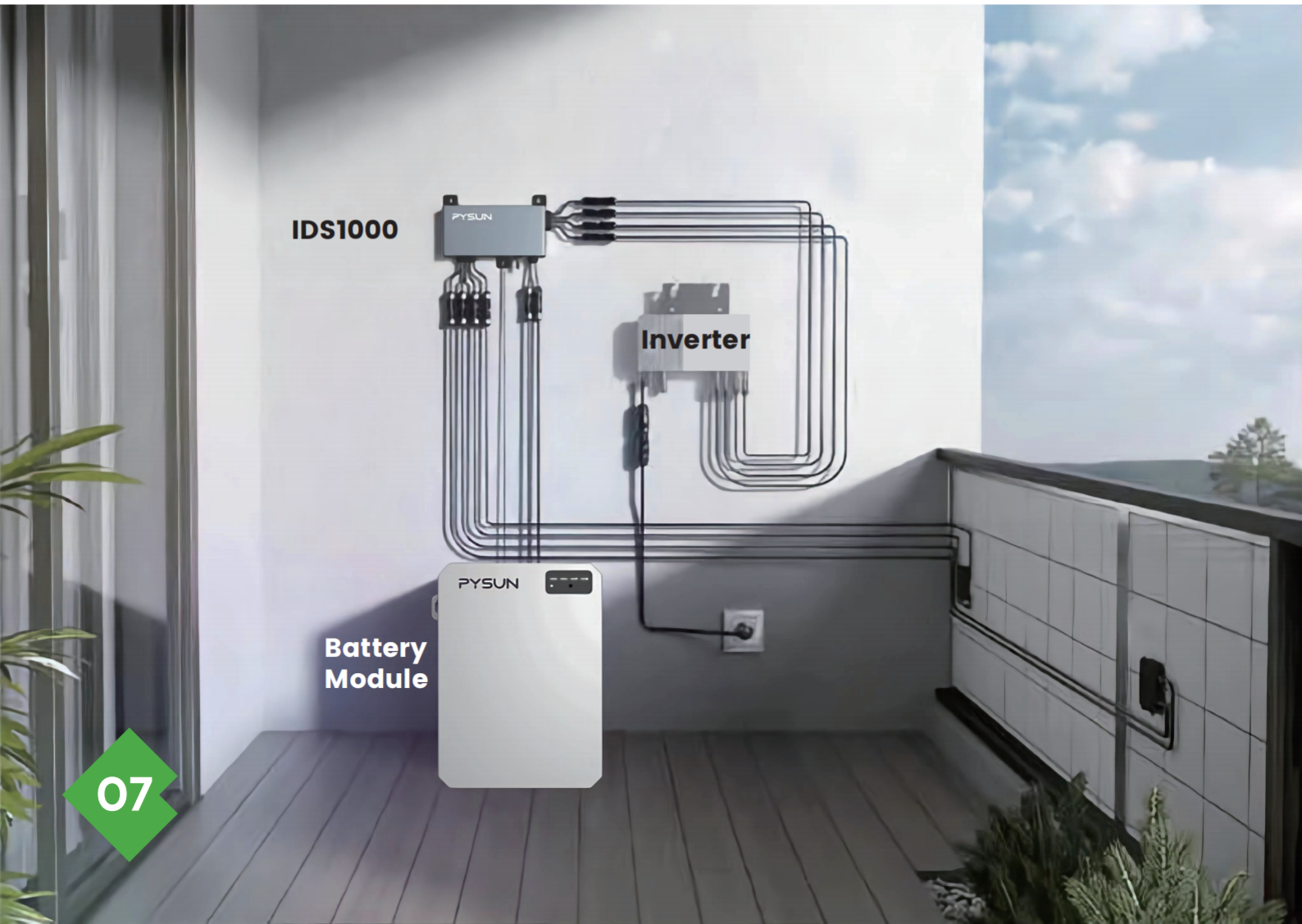
Safe Battery
LiFePO4
Technology



Smart
Sixfold
BMS
Protection



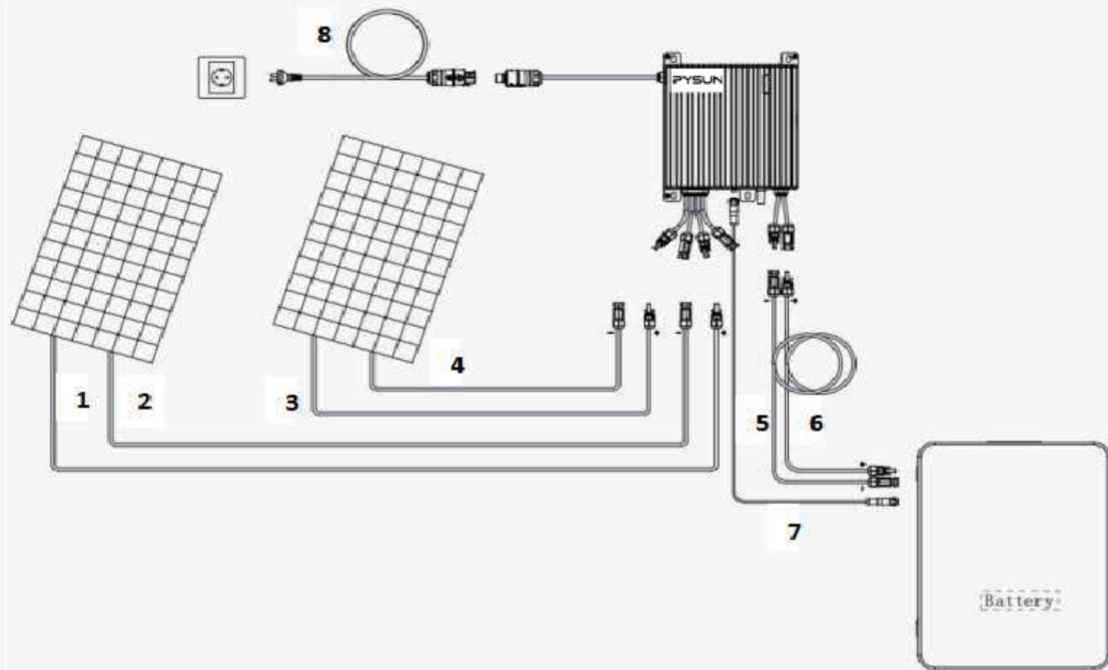
Grade A cells



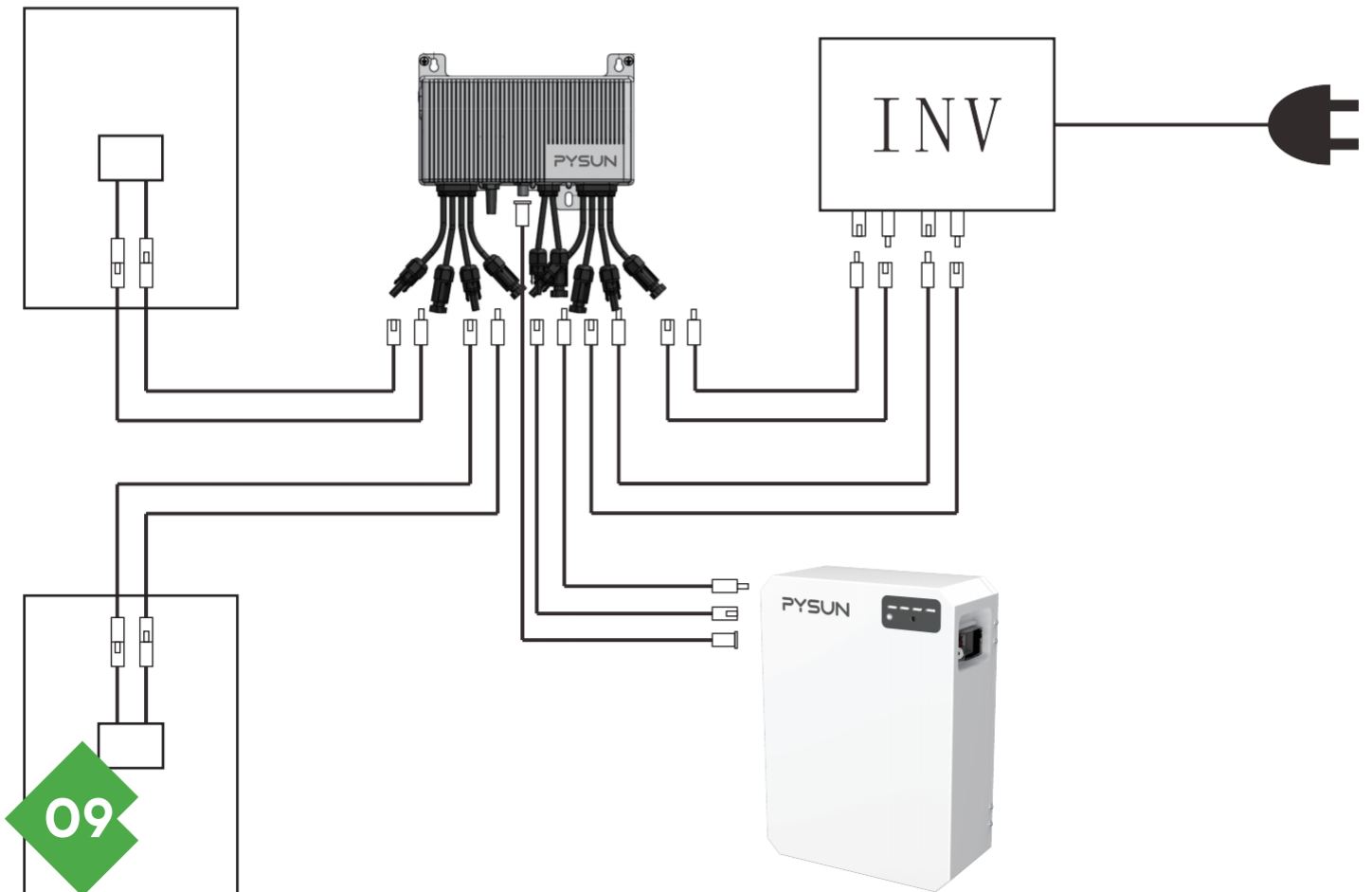
07

PV Input DC		Model:IDS-1000
Recommended. PV Module		2 X 750 W
MPPT Voltage Range		22 -55 V
Starup Voltage		24 V
Max. Input Voltage		60 V
Max. Input Current		15 X 2 A
Min. Input Voltage		20 V
Max. DC Short Circuit Current		20 X 2 A
Battery Discharge to BDS DC		
MAX. Input Power		1000 W
Max.Input Current		20 A
Rated Voltage		51.2 V
BDS Charge to Battery DC		
Max.Output Power		1000W
Max.Output Current		30 A
Rated Voltage		51.2 V
Output to Microinverter		
Recommeded. Microinverter Power		less than 1000W
Max. Output Current		20 A
Nominal Voltage Range		22 - 60 V
Efficiency		
Peak Efficiency		97.3%
MPPT Efficiency		>95%
Protection		
Overvoltage Protection		Integrated
Overcurrent Protection		Integrated
Short Circuit Protection		Integrated
Temperature Protection		Integrated
General Data		
Operating Ambient Temperature Range		-40 ~ 65°C
Relative Humidity Range		0 - 100 %
Dimensions (W*H*D)		180 X 244 X31mm
Weight (not including battery)		2.2 kg
Communication Method		WIFI
Protection Class		IP65

IDH800

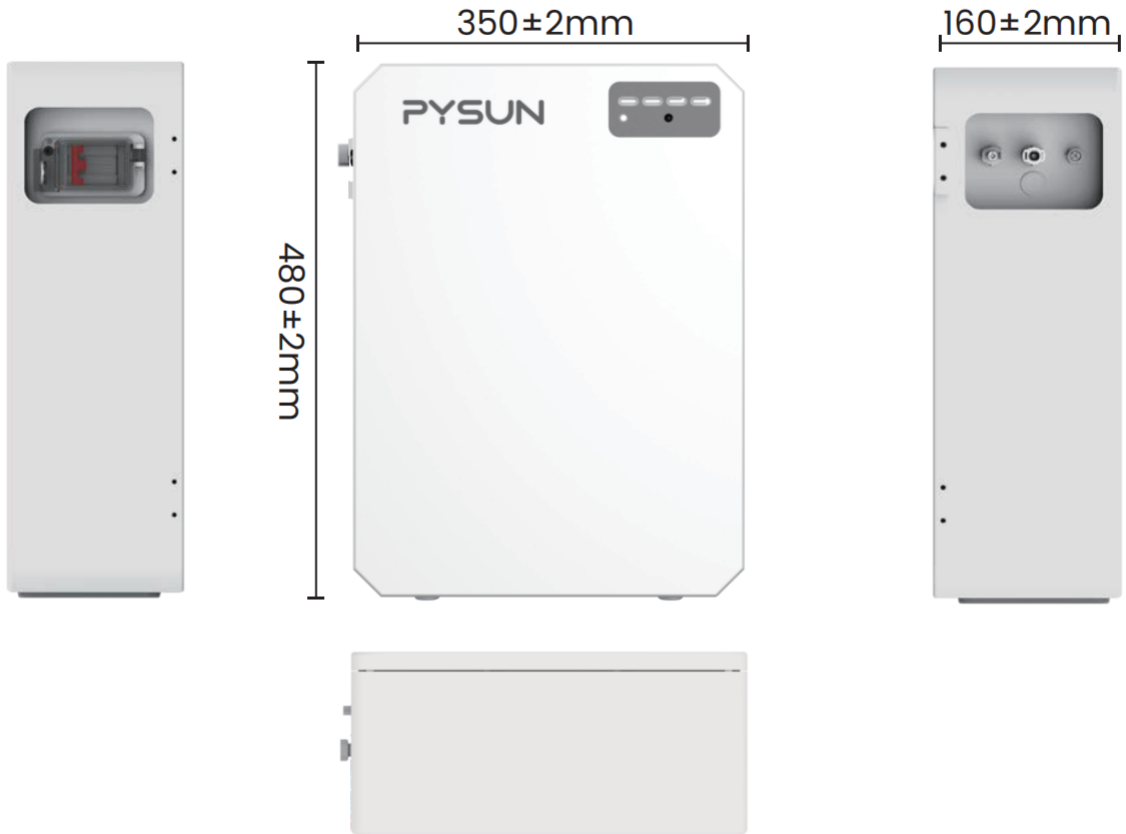


IDS1000



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Micro Energy Storage System - Battery Module





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Packing List



Packing List : BD2200

<p>Pysun BD2200 * 1</p>	
<p>MC4 EXTENTION CABLE 2M*2 pairs</p>	
<p>MC4 EXTENTION CABLE 3M*2 pairs</p>	
<p>USER MANUAL*1</p>	











Packing List : IDH800

<p>PYSUN IDH800 *1(boxed)</p>	
<p>AC Cable*1(boxed) -Used to connect IDH800 to the power grid socket</p>	

Packing List: IDS1000

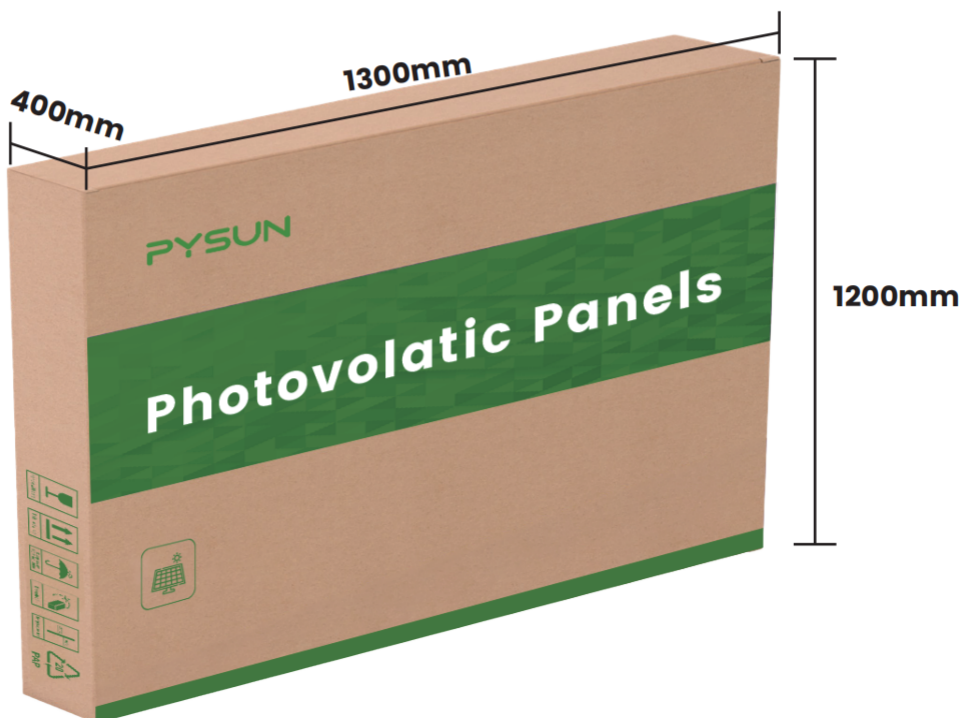
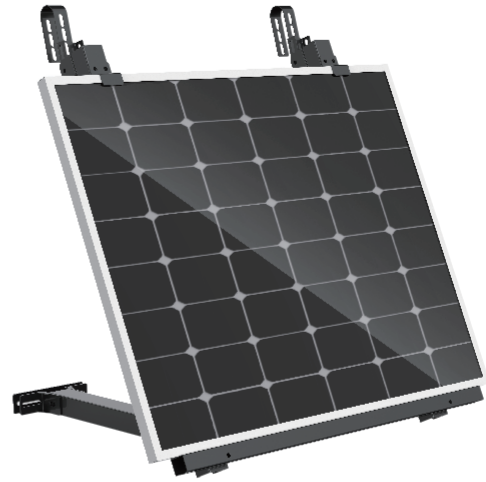
<p>PYSUN IDS1000 *1(boxed)</p>	
<p>DC Cable*2 Pairs(boxed) -Used to connect IDS1000 to PV and inverter, 4 wires in total</p>	

Packing List: Battery(BH2800)

 <p>Host*1</p>	 <p>Wall*1</p>	 <p>Card*1</p>	
 <p>Floor*1</p>	 <p>Foot*2</p>	 <p>M5 Screw*2</p>	 <p>Expansion*5</p>
 <p>Communication line*1</p>			
 <p>Battery cable positive electrode*1</p>			
 <p>Battery cable negative electrode*1</p>			

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Solar Panel Bracket



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