



TSOL-DCU1000/P1000/B1000



- Plug and play
- Stackable up to 5kWh battery
- WiFi monitoring
- Flexible for home or portable usage

FOR

DC Coupled Unit
Household electricity

DC Coupled Unit

Fits right between PV panel and microinverter, offers storage option for existing balcony PV systems.



DCU1000 DC Coupled Unit 1.024Kwh
Input 1200W DC Output 800W

B1000 Battery Pack 1.024kwh



P1000 Portable Station Accessory
Input 600W AC Output 1000W

B1000 Battery Pack 1.024kwh

Key Features



Maximize PV generation into local consumption



Not only for home storage, with optional accessories, it can transfer into portable battery bank for blackout or outdoor use



Energy Saving and Environmental Protection



Plug and play design for DIY, no need for professional



WiFi monitoring, accessible via Tsun Smart app

TSUNESS Headquarter

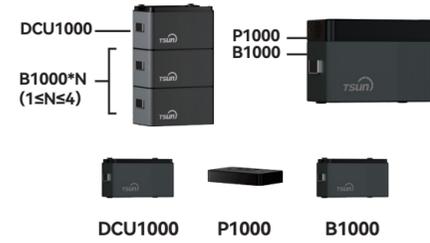
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6 Unique Design



Modular Stackable Design:
Flexible modular design allows the system to expand according to household needs, providing a convenient and quick solution.

Indoors
Balcony Solar Storage System



Outdoors
Portable Power Station



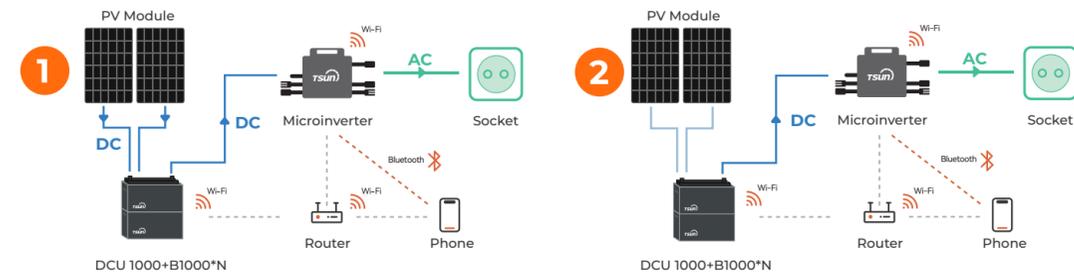
Versatile Application Combinations:
Suitable for various scenarios, including home, outdoor, and emergency situations, meeting diverse electricity demands.

Indoors—Balcony Solar Storage Solution

The DCU1000 is a crucial component of the balcony solar storage system: The Smart Lithium Battery Pack, when combined with solar photovoltaic panels and microinverters, forms the balcony solar storage system. **One DCU1000 can connect four B1000.**

Designed with modularity in mind and can be paralleled with up to 5 units at most, helping households make the most of limited space, achieve energy self-sufficiency, and reduce electricity costs by 1/3.

System Diagram—DCU 1000+B1000



Sufficient photovoltaic power, charging

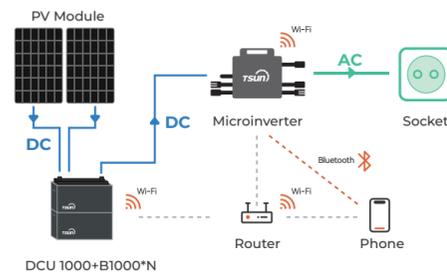
Insufficient photovoltaic power, discharge



Technical Data

DCU1000	
Battery Capacity (Wh)	1024
Battery Type	LiFePO4
Life Cycle	6000 Cycles, Remaining Capacity ≥ 70%
Operating PV Voltage Range per Input (V)	18 - 55
Max. Input Current per Input (A)	15
Max. Input Power (W)	1200
Output Voltage Range (V)	20 - 45
Max. Output Power (W)	800 (1000 Optional)
Dimensions (W×H×D mm)	330*210*195
Weight [kg]	11
Ingress Protection	IP65
Operating Ambient Temperature Range	-20 ~ +45 °C (Smart Battery Heating Module)
Storage Temperature Range	-20 ~ +45 °C
Relative Humidity	0-95%, Non condensing
Max. System Capacity (kWh)	5.12 (1 DCU + 4 Stakebale Battery)

DCU1000



Smart Control:
Integrates 2.4G WiFi wireless communication technology for intelligent control through a mobile app, enabling remote monitoring and operation. Module stacking allows for automatic networking, ensuring simplicity and ease of use.



Wide Temperature Range Adaptability:
Built-in battery heating module enables stable operation in extreme temperatures ranging from -20°C to 45°C.

Outdoors—Portable Power Station

B1000 Battery flexibly combine with P1000 inverter module to form a portable power station, making it the ideal companion for camping and other outdoor activities. **One P1000 can connect one B1000.**



System Diagram—P1000+B1000



Sufficient photovoltaic power, charging

Insufficient photovoltaic power, discharge



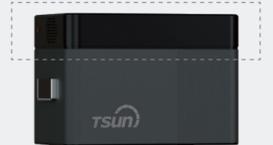
Long-life Battery:
Utilizes safety power batteries, offering a long cycle life and high safety performance, ensuring stable system operation and user safety.



IP65 Certification
It possesses an IP65 certification, allowing it to withstand diverse weather conditions and special circumstances.

P1000	
Operating PV Voltage Range per Input (V)	12 - 55
Max. Input Current per Input (A)	10
Max. Input Power (W)	200
PV Port	PV(XT60) * 1
Max. AC Output Power (W)	1000
AC Output Voltage (V)	220 ~240
AC Output Frequency (Hz)	50 / 60
Output Port	AC(220V) * 3 / USB(5V2A) * 2
Dimensions (W×H×D mm)	330*210*60
Weight [kg]	2.5
Noise (dB)	≤55

P1000



B1000	
Battery Capacity (Wh)	1024
Battery Type	LiFePO4
Life Cycle	6000 Cycles, Remaining Capacity ≥ 70%
Nominal Voltage (V)	48
Operating Voltage Range (V)	40 ~ 58.4
Dimensions (W×H×D mm)	330*210*195
Weight [kg]	11
Ingress Protection	IP65
Operating Ambient Temperature Range	-20 ~ +45 °C (Smart Battery Heating Module)
Storage Temperature Range	-20 ~ +45 °C
Relative Humidity	0-95%, Non condensing

B1000

