

TSOL-DCU1000/P1000/B1000





Plug and play



Stackable up to 5kWh battery



WiFi monitoring



Flexible for home or portable usage





DC Coupled Unit

Fits right between PV panel and microinverter, offers storage option for exisiting 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



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



Plug and play design for DIY, no need for professional



WiFi monitoring, accessible via TSUN Smart app

Key Features



Energy Saving and Environmental Protection

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



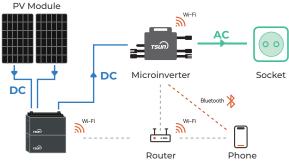






Versatile Application Combinations:

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



DCU 1000+B1000*N

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 60°C.



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

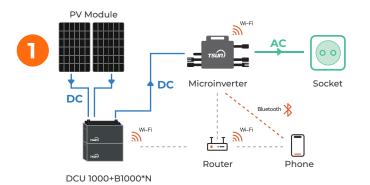
It possesses an IP65 certification, allowing it to withstand diverse weather conditions and special circumstances.

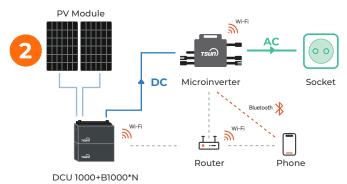
Indoors—Balcony Solar Storage Solution

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



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

Technical Data

| Model | DCU1000 |
|--------------------------|---|
| Mainframe(Single Pack) | |
| Capacity | 1024 Wh |
| Size(L*W*H) | 12.99*8.27*7.68(in)/ 330*210*195(mm) |
| Weight | 24.25lbs/ 11kg |
| Battery Type | LiFePO4 |
| Cycle Life | 6000 Cycles, Remaining Capacity ≥ 70% |
| Input Voltage | 18-55Vdc |
| Input Current Max | 15A |
| Maximum Input Power | 1200W |
| Maximum Output Power | 800W |
| Output Voltage Range | 20-50Vdc |
| Maximum System Capacity | 5120Wh |
| Protection Level | IP65 |
| Operating Temperature | -20°C-60°C (Smart Battery Heating Module) |
| Protection | |
| Overcharge | Support |
| Overdischarge | Support |
| Overcurrent | Support |
| High Temperature | Support |
| Low Temperature | Support |
| Short Circuit Protection | Support |
| Others | |
| WiFi Module | Support |
| Balancing Mode | Support |

| Model | P1000 |
|------------------------|---|
| Split Type Inverter | |
| Size(L*W*H) | 12.99*8.27*2.36(in)/ 330*210*60(mm) |
| Weight | 5.51lbs/ 2.5kg |
| Input Voltage | 42-58VDC (Rated 48VDC) |
| Noise | ≤55dB |
| AC Output Voltage | 220V~240V |
| Rated Output Frequency | 50Hz/60Hz |
| Max. PV Input Power | 600W |
| AC Output Power | 1000W |
| Protection Functions | Under Voltage Input Protection/ Output Short Circuit Protection/ Output Overload Protection/ High Temperature Protection/ Low Temperature Protection |
| Pallet | 96 Units/ Pallet |

| Model | B1000 |
|--------------------------------|--|
| Battery Capacity | 1024Wh |
| Product Dimensions | 12.99*8.27*7.68(in)/ 330*210*195(mm) |
| Battery Type | LiFePO4 |
| Rated Battery Voltage | 48V |
| Voltage Range | 40V~58.4V |
| Typical Max Current | 50A |
| Under-voltage Alarm Point | 47V±5% |
| Under-voltage Protection Point | 40V±5% |
| Protection Function | 63A |
| Battery Fuse | Short Circuit Protection, Overload Protection, Overcurrent Protection, Temperature Protection, Overvoltage and Under-voltage Protections |
| Reverse Polarity Protection | Open Circuit of the Internal Fuse |
| Operating Temperature | -20°C-60°C (Smart Battery Heating Module) |
| Operating Humidity | 10%~90% Non-condensing |
| EMI Degree | CLASS B |
| Protection Degree | IP65 |
| Pallet | 54 Units/ Pallet |

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