

Balcony Battery

Maximum storage: 4*2kWh.

- Cell type: high quality LifePO4 cells.
- Max 4 pcs batteries in parallel.
- Rated voltage: 51.2Vdc, charge and discharge rate : 40A max.
- Long cycle life≥6000cycles@ 80% DOD.
- Long-life design and superior performance.
- Wi-Fi communication, smart APP real-time monitoring.
- Safe and Reliable: compliant with CE, UN38.3, IEC62619, UL1973.
- IP class: IP65.



| Model | TPB2000L-LPF |
|--|---|
| Nominal voltage | 51.2V |
| Nominal energy@0.2C | 2.048kWh |
| Usable energy@0.2C | 1.97KWh |
| Nominal capacity@0.2C | 40Ah |
| Internal resistance@1kHz AC | ≤30 mOhm |
| Operation voltage range | (With communication): 48V-56V / (Without communication): 44.8V-57.6V |
| Charge voltage | 56.0V |
| Float voltage | 54.6V |
| Allowed MAX charge current | 40A max. |
| Recommend charge current | ≤20A |
| Allowed MAX discharge current | 40A max. |
| Recommend discharge current | ≤20A |
| Peak/Surge current limit | 50A@15S/60A@1s |
| Short circuit protection | Yes |
| End Discharge (Re-charge voltage) | 50.0V |
| End Discharge (Inverter/Load cut off) | 48.0V |
| End Discharge (Re-start voltage) | 52.0V |
| Communication | CAN/RS485 |
| Parallel and Series connection | Support Max. 4 in parallel |
| Cycle life | 24000 cycles. After Normal charge, discharge @0.2C current with 90%DOD, Repeat above process until discharge capacity reduce to 60% of initial value. |
| Operation temperature | Charge (With communication): -10~50°C / Discharge (With communication) :-20~50°C |
| Operation altitude | <3000m |
| Self-discharge rate ² (Residual capacity) | ≤3%/month ≤15%/years |
| Self-discharge rate ² (Recover capacity) | ≤1.5%/Month ≤8%/ year |
| Storage environment ³ (≤3 months) | -10~45°C 5~90%RH |
| Storage environment ³ (>3 months) | 15~35°C 45~85%RH |
| Storage environment ³ | 15~35°C 45~85%RH (Recommend environment) |
| Installation types | Stack |
| IP rating | IP65 |
| Dimension(W*H*D) | 427*234*246mm |
| Weight (without accessories) | ~23kg(50.7lb) |



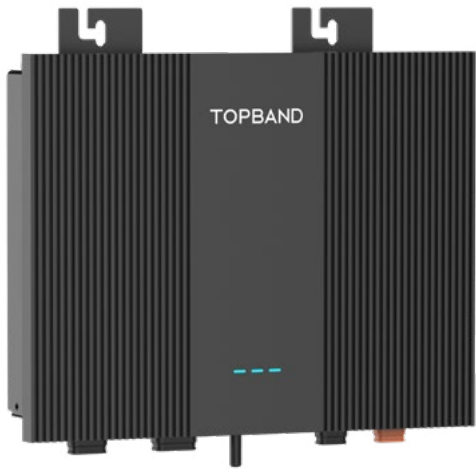
Intelligent shutoff

Intelligent Circuit Breaker for household

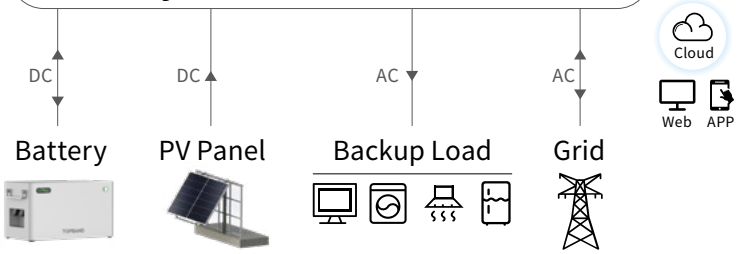
- Digital intelligent communication.
- Advanced low-voltage electrical technology.
- Electromagnetic drive and other technologies.
- Factory high-power equipment circuit.
- Intelligent control, measurement, early warning, protection and other safety and convenient functions.



| Model | | TPS63-1PN |
|--------------------|---|-------------------|
| Electrical Specs | Rated operational voltage | 230V |
| | Pole No. | 1P+N |
| | Breaking ability | 6kA |
| | Rated current | 16/20/25/32/40/50 |
| | Mechanical life | 20, 000 |
| | Wiring capacity | 25mm² |
| | Installation | 2M (2P) |
| Electrical Specs | Voltage metering accuracy | 0.5%FS |
| | Current metering accuracy | 0.5%FS |
| | Power metering accuracy | 1%FS |
| | Electricity metering accuracy | 1%FS |
| | Switch on acting time | 20ms |
| | Switch off acting time | 5ms |
| Protection Feature | Overload protection | Integrated |
| | Overvoltage protection | Integrated |
| | Undervoltage protection | Integrated |
| | Leakage alarm realized by software | Integrated |
| | Over temperature alarm | Integrated |
| | Power limit protection | Integrated |
| | Overvoltage recovery delay | Integrated |
| | Undervoltage auto recovery | Integrated |
| | Leakage protection realized by hardware | Integrated |
| | Operating temperature | Altitude<2000m |
| Others | Dimensions (LxWxH) | 105x100x147mm |
| | Weight | ≈1kg |



Hybrid Micro Inverter



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Please contact your account manager to obtain the latest product information.



Android System



iOS System



TOPBAND
CO-INNOVATING A SMARTER FUTURE

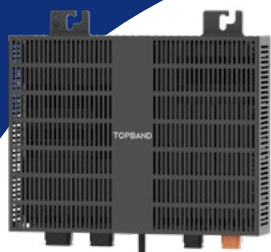
Balcony Solar
Energy Storage Solutions

Balcony energy storage solutions are ultra-small distributed photovoltaic systems, also known as plug-in photovoltaic systems, that are compact in layout, small in size, and easy to install or move away from.

Users only need to fix the photovoltaic system to the balcony railing, plug the system cable into the home outlet, and use solar power to generate electricity supply.

Hybrid Micro Inverter

Single-phase 1200W



- On grid: 800W.
- Back up: 1200W.
- Battery voltage: 28~59Vdc, 35A max.
- 2 MPPT trackers, 1220W max.
- UPS level switching <10ms.
- Smart APP real-time monitoring.
- Support Intelligent shutoff.
- IP class: IP65.

Balcony energy storage Solution

Hybrid Micro Inverter

Single-phase 2000W



- On grid: 2000W.
- Back up: 2000W.
- Battery voltage: 40~59Vdc, 41.5A max.
- 2 MPPT trackers, 2100W max.
- UPS level switching <10ms.
- Smart APP real-time monitoring.
- Support Intelligent shutoff.
- IP class: IP65.

Balcony energy storage Solution

Hybrid Micro Inverter

Single-phase 3000W



- On grid: 2300W.
- Back up: 3000W.
- Battery voltage: 40~59Vdc, 62.5A max.
- 2 MPPT trackers, 3200W max.
- UPS level switching <10ms.
- Smart APP real-time monitoring.
- Support Intelligent shutoff.
- IP class: IP65.

Balcony energy storage Solution

| Model P1-1200HMI | | |
|----------------------|--|---|
| DC Input (PV) | Nominal voltage range Input voltage range Max. Input DC voltage Input current Standby power dissipation Reverse input MPPT Tracker | 12~53Vdc 12~57Vdc Max.59Vdc 14A Max.4W Nonsupport 2 |
| DC Input (battery) | Input voltage range Max. Input DC Voltage Inrush current Input current Leakage current No-load power dissipation Reverse Input | 28-59Vdc Max.59Vdc No requirement 35A Max.0.5A Max.6W Nonsupport |
| AC output (On grid) | Output voltage Rated output power Max. AC apparent power AC grid frequency Max. output current Power factor THDI | 176~ 260Vac 800W 1000VA 50/60 Hz 3.7A 0.8leading...0.8lagging Max.3 (Full of load) |
| AC output (Off grid) | Battery to AC efficiency PV to Battery efficiency AC grid connection type AC nominal power Max. AC apparent power Nominal AC voltage AC grid frequency Max. output current | 94%Max 97% max Single phase 1200W 1200VA 230V 50/60 Hz 5.2A |
| AC Input (on-grid) | Max. input current Max. apparent power Nominal AC voltage Max. input current AC grid frequency | Single phase 1600VA 230V 8A 50/60 Hz |
| Protection devices | Input over voltage protection Input under voltage protection Over temperature protection Output over power protection Short output protection Output under voltage protection Output over voltage protection | Integrated Integrated Integrated Integrated Integrated Integrated Integrated |
| Others | Constant power output protection Ingress Protection Protective Class Operating Ambient Temp. Power factor range Display Interfaces Warranty Dimensions (LxWxH) Weight | Integrated IP65 Class I -40°C~+50°C 0.8leading~0.8lagging LED+APP (Wi-Fi+Bluetooth) RS485, CAN 5 Years 324x285x63.5mm ≈5kg |

| Model P1-2000HMI | | |
|----------------------|--|---|
| DC Input (PV) | Nominal voltage range Input voltage range Max. Input DC voltage Input current Standby power dissipation Reverse input MPPT Tracker | 12~53Vdc 12~57Vdc Max.59Vdc 20A Max.4W Nonsupport 2 |
| DC Input (battery) | Input voltage range Max. Input DC Voltage Inrush current Input current Leakage current No-load power dissipation Reverse Input | 40-59Vdc Max.59Vdc No requirement 40A Max.0.5A Max.6W Nonsupport |
| AC output (On grid) | Output voltage Rated output power Max. AC apparent power AC grid frequency Max. output current Power factor THDI | 176~ 260Vac 2000W 2000VA 50/60 Hz 8.7A 0.8leading...0.8lagging Max.3 (Full of load) |
| AC output (Off grid) | Battery to AC efficiency PV to Battery efficiency AC grid connection type AC nominal power Max. AC apparent power Nominal AC voltage AC grid frequency Max. output current | 92%max 95% max Single phase 2000W 2000VA 230V 50/60 Hz 8.7A |
| AC Input (on-grid) | Max. input current Max. apparent power Nominal AC voltage Max. input current AC grid frequency | Single phase 2000VA 230V 8.7A 50/60 Hz |
| Protection devices | Input over voltage protection Input under voltage protection Over temperature protection Output over power protection Short output protection Output under voltage protection Output over voltage protection | Integrated Integrated Integrated Integrated Integrated Integrated Integrated |
| Others | Constant power output protection Ingress Protection Protective Class Operating Ambient Temp. Power factor range Display Interfaces Warranty Dimensions (LxWxH) Weight | Integrated IP65 Class I -40°C~+50°C 0.8leading~0.8lagging LED+APP (Wi-Fi+Bluetooth) RS485, CAN 5 Years 378x345x86mm ≈6kg |

| Model P1-3000HMI | | |
|----------------------|--|---|
| DC Input (PV) | Nominal voltage range Input voltage range Max. Input DC voltage Input current Standby power dissipation Reverse input MPPT Tracker | 12~53Vdc 12~57Vdc Max.59Vdc 30A Max 4W Nonsupport 2 |
| DC Input (battery) | Input voltage range Max. Input DC Voltage Inrush current Input current Leakage current No-load power dissipation Reverse Input | 40-59Vdc Max.59Vdc No requirement 60A Max.0.5A Max.6W Nonsupport |
| AC output (On grid) | Output voltage Rated output power Max. AC apparent power AC grid frequency Max. output current Power factor THDI | 176~ 260Vac 2300W 2300VA 50/60 Hz 10A 0.8leading...0.8lagging Max.3 (Full of load) |
| AC output (Off grid) | Battery to AC efficiency PV to Battery efficiency AC grid connection type AC nominal power Max. AC apparent power Nominal AC voltage AC grid frequency Max. output current | 93%max 97% max Single phase 3000W 3000VA 230V 50/60 Hz 13A |
| AC Input (on-grid) | Max. input current Max. apparent power Nominal AC voltage Max. input current AC grid frequency | Single phase 3000VA 230V 13A 50/60 Hz |
| Protection devices | Input over voltage protection Input under voltage protection Over temperature protection Output over power protection Short output protection Output under voltage protection Output over voltage protection | Integrated Integrated Integrated Integrated Integrated Integrated Integrated |
| Others | Constant power output protection Ingress Protection Protective Class Operating Ambient Temp. Power factor range Display Interfaces Warranty Dimensions (LxWxH) Weight | Integrated IP65 Class I -40°C~+50°C 0.8leading~0.8lagging LED+APP (Wi-Fi+Bluetooth) RS485, CAN 5 Years 378x345x86mm ≈6.5kg |