

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
Recommend charge current	≤20A
Allowed MAX discharge current	40A
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
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)	400*226*210mm
Weight (without accessories)	~23kg(50.7lb)



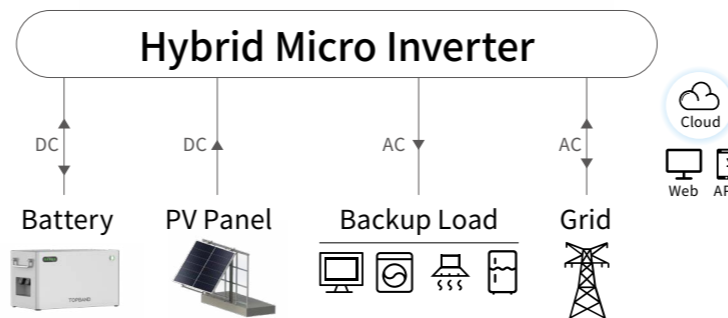
Intelligent shutoff

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	25mm ²
Electrical Specs	Installation	2M (2P)
	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
Protection Feature	Switch off acting time	5ms
	Overload protection	Integrated
	Overvoltage protection	Integrated
	Undervoltage protection	Integrated
	Leakage alarm realized by software	Integrated
	Over temperature alarm	Integrated
Others	Power limit protection	Integrated
	Overvoltage recovery delay	Integrated
	Undervoltage auto recovery	Integrated
	Leakage protection realized by hardware	Integrated
	Operating temperature	Altitude<2000m
	Dimensions (LxWxH)	130x147x100mm
Weight	≈1kg	



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.

Tel: +86-755-2765 1888-2658 · E-mail: powersystem@topband.com.cn
Add: Topband Industrial Park, LiYuan Industrial Zone, ShiYan Town, Bao'an District, Shenzhen, China

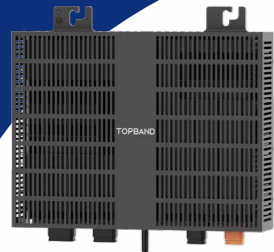


Android System iOS System

2024 V1.3
This document is subject to changes (updates, revisions, or termination) without prior notice.
Please contact your account manager to obtain the latest product information.

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

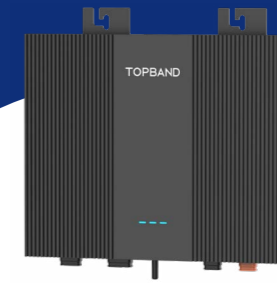


- On grid: 2000W.
- Back up: 2000W.
- Battery voltage: 40~59Vdc, 41.5A max.
- 2 MPPT trackers, 2100W max.
- UPS level switching <10ms.
- Smart APP real-time monitoring.
- Support Intelligent shutoff.
- IP class: IP65.

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		TPI1200-HS
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 321x285x54mm ≈5kg

Model		TPI2000-HS
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 378x298x86mm ≈6kg

Model		TPI3000-HS
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 378x298x86mm ≈6.5kg