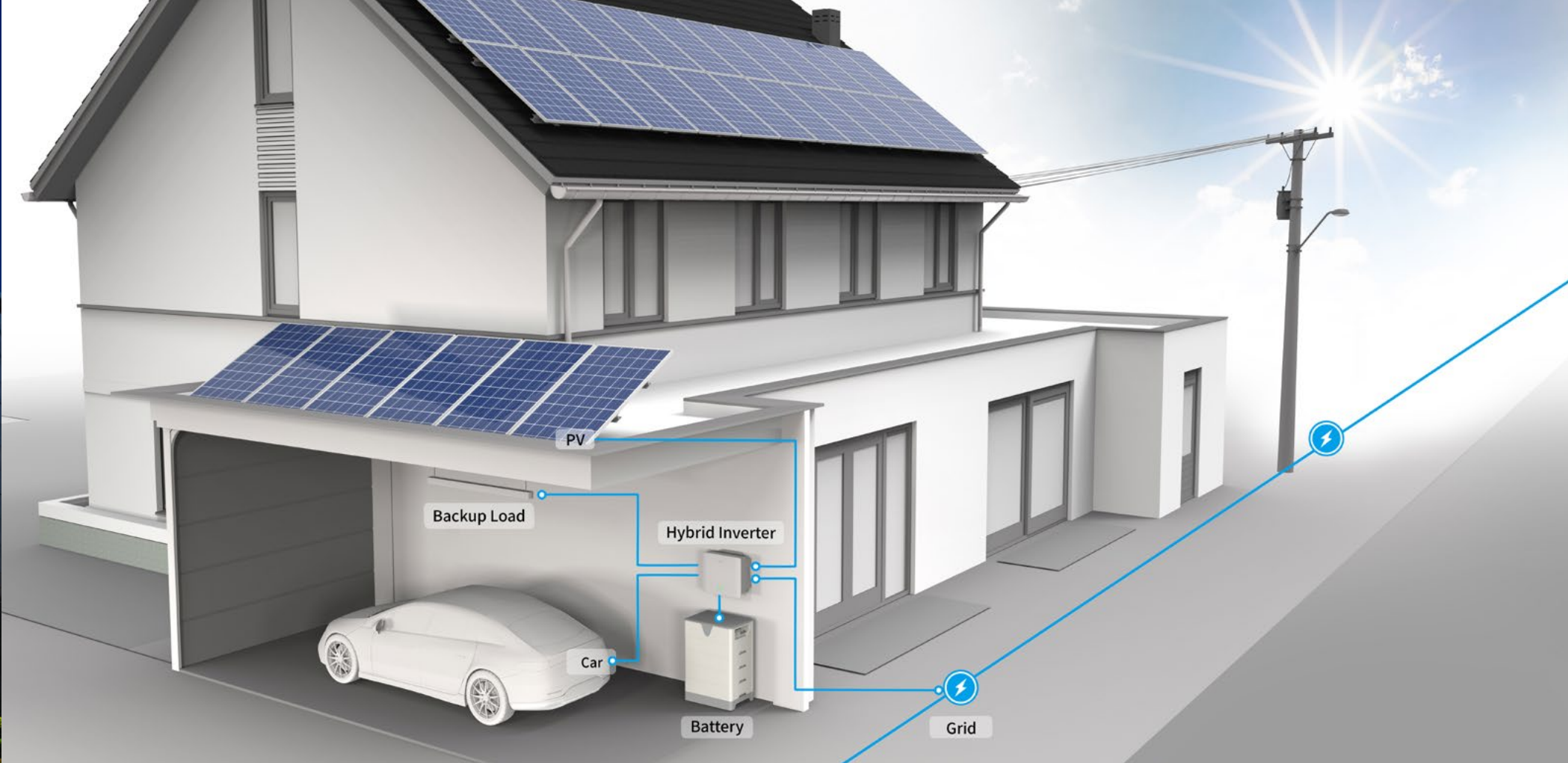




TOPBAND

CO-INNOVATING A SMARTER FUTURE

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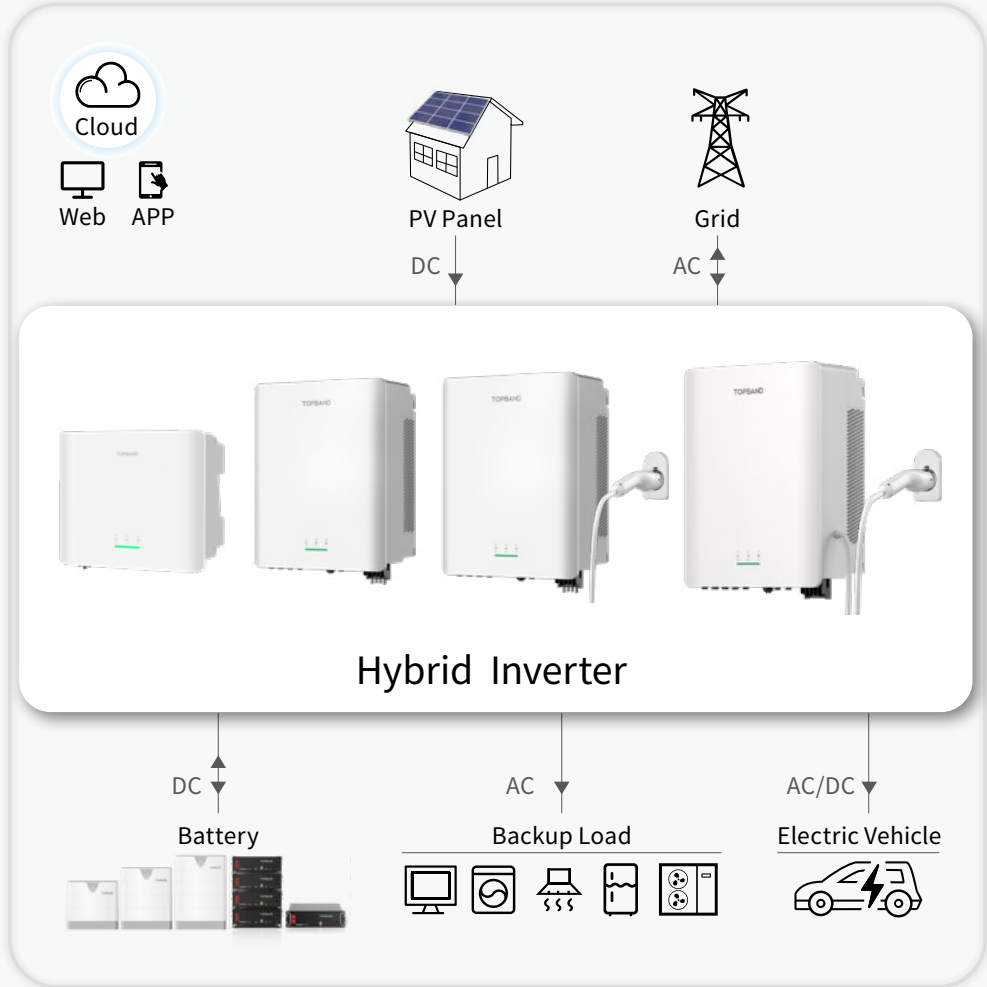
www.topband.com.cn

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 TBE-IS
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 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 Dimensions (LxWxH) 130x147x100mm Weight ≈1kg
Others	



TOPBAND

Residential Energy Storage Solutions

Topband storage inverter can meet the needs of grid-connected and off-grid systems at the same time. It can not only realize grid-connected and off-grid functions but also realize bidirectional control of electric energy. Intelligent control can realize highly autonomous energy scheduling.

Topband storage inverter could be intergrated into flexible battery system options as the whole systems meets the multiple applications scenarios.

Hybrid Inverter

Single-phase 6kW



- On grid: 6kW.
- Back up: 6kW.
- Input voltage: 40~60Vdc.
- 2 MPPT trackers, 9kW max.
- UPS level switching <10ms.
- DC ARC protection, DC Surge class 2 protection.
- Support Intelligent shutoff.
- IP class: IP65.

Residential Energy Storage Solutions

Hybrid Inverter

Three-phase 15/20kW



- On grid: 15kW/20kW.
- Back up: 15kW/20kW.
- Input voltage: 200~850Vdc.
- 2 MPPT trackers, 30kW max.
- UPS level switching <10ms.
- DC ARC protection, DC Surge class 2 protection.
- Support Intelligent shutoff.
- IP class: IP65.

Residential Energy Storage Solutions

Hybrid Inverter

Three-phase 15/20kW

AC EV charger: AC 7/11kW



- On grid: 15kW/20kW.
- Back up: 15kW/20kW.
- Input voltage: 200~850Vdc.
- 2 MPPT trackers, 30kW max.
- UPS level switching <10ms.
- DC ARC protection, DC Surge class 2 protection.
- Support Intelligent shutoff.
- IP class: IP65.

Residential Energy Storage Solutions

Hybrid Inverter

Three-phase 15/20kW

DC EV charger: 10kW/15kW



- On grid: 15kW/20kW.
- Back up: 15kW/20kW.
- Input voltage: 200~850Vdc.
- 2 MPPT trackers, 30kW max.
- UPS level switching <10ms.
- DC ARC protection, DC Surge class 2 protection.
- Support Intelligent shutoff.
- IP class: IP65.

Residential Energy Storage Solutions



Model		P1-6000HI
Input data (PV)	Max. recommended PV power	9000W
	Max. DC voltage	600V
	Start voltage	58V
	Nominal voltage	360V
	MPPT voltage range	60V~550V
	strings per MPPT tracker	2
	Max. input current per MPPT tracker	16A
	Max. short-circuit current per MPPT trackers	23A
Input data (DC battery)	Compatible battery	Li-Ion
	Operating voltage range	40V~60V
	Max.operating current	150A
	Max.charge power	6000W
	Max.discharge power	6300W
	AC nominal power	6000W
	Max. AC apparent power	6000VA
	Nominal AC voltage	220V/230V/240V
Output data (AC)	AC grid frequency	50/60 Hz
	Max. output current	27.3A
	Adjustable power factor	0.8leading...0.8lagging
	THDi	<3%
Output data (Backup*)	AC grid connection type	Single phase
	Max. apparent power	6000VA
	Nominal AC voltage	220V/230V/240V
	AC grid frequency	50/60 Hz
Efficiency	Max. efficiency	97.50%
	European efficiency	96.80%
	MPPT efficiency	99.90%
Input data (DC)	DC reverse polarity protection	Integrated
	DC switch	Integrated
	DC/AC surge protection	Type 3
	Insulation resistance monitoring	Integrated
	AC short-circuit protection	Integrated
	Ground fault monitoring	Integrated
	Grid monitoring	Integrated
	Anti-islanding protection	Integrated
	Residual-current monitoring unit	Integrated
	AFCl protection	Optional
Others	Operating temperature range	-25°C ... +60°C
	Altitude	3,000m(>2,000m Derating)
	Self-Consumption night	< 10W
	Topology	Transformerless
	Cooling	Natural convection
	Protection degree	IP66
	Relative humidity	0%~95%
	DC connection	MC4(Optional)
	AC connection	Connector
	Display	LED/WLAN+APP
	Interfaces	RS485, CAN, WLAN, LAN, 4G
	Warranty	5 Years
	Dimensions (LxWxH)	503x162x423mm
	Weight	≈22kg

Model		P1-15000HI	P1-20000HI
Input data (DC)	Max. recommended PV power	20000W	25000W
	Max. DC voltage	1000V	1000V
	Start voltage	180V	200V
	Nominal voltage	630V	630V
	MPPT voltage range	200V~800V	200V~800V
	strings per MPPT tracker	2	2
	Max. input current per MPPT tracker	30A	30A
	Max. short-circuit current per MPPT trackers	38A	38A
Input data (DC battery)	Compatible battery	Li-Ion	Li-Ion
	Operating voltage range	200Vdc~850Vdc	200Vdc~850Vdc
	Max.operating current	25A	25A
	Max.charge power	12000W	20000W
	Max.discharge power	10500W	12600W
	AC nominal power	15000VA	20000VA
	Max. AC apparent power	16500VA	22000VA
	Nominal AC voltage	380V/400V	380V/400V
Output data (AC)	AC grid frequency	50/60 Hz	50/60 Hz
	Max. output current	25A	33.3A
	Adjustable power factor	0.8leading...0.8lagging	0.8leading...0.8lagging
	THDi	<3%	<3%
Output data (Backup*)	AC grid connection type	Three phase	Three phase
	Max. apparent power	15000VA	20000VA
	Nominal AC voltage	380V/400V	380V/400V
	AC grid frequency	50/60 Hz	50/60 Hz
Efficiency	Max. efficiency	98%	98%
	European efficiency	97.50%	97.50%
	MPPT efficiency	99.90%	99.90%
Input data (DC)	DC reverse polarity protection	Integrated	Integrated
	DC switch	Integrated	Integrated
	DC/AC surge protection	Type 3	Type 3
	Insulation resistance monitoring	Integrated	Integrated
	AC short-circuit protection	Integrated	Integrated
	Ground fault monitoring	Integrated	Integrated
	Grid monitoring	Integrated	Integrated
	Anti-islanding protection	Integrated	Integrated
	Residual-current monitoring unit	Integrated	Integrated
	AFCl protection	Optional	Optional
Others	Operating temperature range	-25°C ... +60°C	-25°C ... +60°C
	Altitude	3,000m(>2,000m Derating)	3,000m(>2,000m Derating)
	Self-Consumption night	< 15W	< 15W
	Topology	Transformerless	Transformerless
	Cooling	Natural convection	Natural convection
	Protection degree	IP65	IP65
	Relative humidity	0%~95%	0%~95%
	DC connection	MC4(Optional)	MC4(Optional)
	AC connection	Connector	Connector
	Display	LED/WLAN+APP	LED/WLAN+APP
	Interfaces	RS485, CAN, WLAN, LAN, 4G	RS485, CAN, WLAN, LAN, 4G
	Warranty	5 Years	5 Years
	Dimensions (LxWxH)	530x256x660mm	530x256x660mm
	Weight	≈36kg	≈36kg

Model		P1-15000HI-ACEV	P1-20000HI-ACEV
Input data (PV)	Max. recommended PV power	22000W	30000W
	Max. DC voltage	1000V	1000V
	Start voltage	200V	200V
	Nominal voltage	630V	630V
	MPPT voltage range	200V~800V	200V~800V
	strings per MPPT tracker	2	2
	Max. input current per MPPT tracker	30A	30A
	Max. short-circuit current per MPPT trackers	38A	38A
Input data (DC battery)	Compatible battery	Li-Ion	Li-Ion
	Operating voltage range	200Vdc~850Vdc	200Vdc~850Vdc
	Max.operating current	50A	50A
	Max.charge power	15000W	20000W
	Max.discharge power	15000W	20000W
	AC nominal power	15000VA	20000VA
	Max. AC apparent power	16500VA	22000VA
	Nominal AC voltage	380V/400V	380V/400V
Output data (AC)	AC grid frequency	50/60 Hz	50/60 Hz
	Max. output current	25A	33.3A
	Adjustable power factor	0.8leading...0.8lagging	0.8leading...0.8lagging
	THDi	<3%	<3%
Output data (Backup*)	AC grid connection type	Three phase	Three phase
	Max. apparent power	15000VA	20000VA
	Nominal AC voltage	380V/400V	380V/400V
	AC grid frequency	50/60 Hz	50/60 Hz
Output data (EV Charger)	Charge Power	7/11kW, 380V/400Vac	7/11kW, 380V/400Vac
Efficiency	Max. efficiency	98%	98%
	European efficiency	97.50%	97.50%
	MPPT efficiency	99.90%	99.90%
Input data (DC)	DC reverse polarity protection	Integrated	Integrated
	DC switch	Integrated	Integrated
	DC/AC surge protection	Type 3	Type 3
	Insulation resistance monitoring	Integrated	Integrated
	AC short-circuit protection	Integrated	Integrated
	Ground fault monitoring	Integrated	Integrated
	Grid monitoring	Integrated	Integrated
	Anti-islanding protection	Integrated	Integrated
	Residual-current monitoring unit	Integrated	Integrated
	AFCl protection	Optional	Optional
Others	Operating temperature range	-25°C ... +60°C	-25°C ... +60°C
	Altitude	3,000m(>2,000m Derating)	3,000m(>2,000m Derating)
	Self-Consumption night	< 15W	< 15W
	Topology	Transformerless	Transformerless
	Cooling	Natural convection	Natural convection
	Protection degree	IP65	IP65
	Relative humidity	0%~95%	0%~95%
	DC connection	MC4(Optional)	MC4(Optional)
	AC connection	Connector	Connector
	Display	LED/WLAN+APP	LED/WLAN+APP
	Interfaces	RS485, CAN, WLAN, LAN, 4G	RS485, CAN, WLAN, LAN, 4G
	Warranty	5 Years	5 Years
	Dimensions (LxWxH)	530x256x660mm	530x256x660mm
	Weight	≈36kg	≈36kg

Model		P1-15000HI-DCEV	P1-20000HI-DCEV
Input data (PV)	Max. recommended PV power	22000W	30000W
	Max. DC voltage	1000V	1000V
	Start voltage	200V	200V
	Nominal voltage	630V	630V
	MPPT voltage range	200V~800V	200V~800V
	strings per MPPT tracker	2	2
	Max. input current per MPPT tracker	30A	30A
	Max. short-circuit current per MPPT trackers	38A	38A
Input data (DC battery)	Compatible battery	Li-Ion	Li-Ion
	Operating voltage range	200Vdc~850Vdc	200Vdc~850Vdc
	Max.operating current	50A	50A
	Max.charge power	15000W	20000W
	Max.discharge power	15000W	20000W
	AC nominal power	15000VA	20000VA
	Max. AC apparent power	16500VA	22000VA
	Nominal AC voltage	380V/400V	380V/400V
Output data (AC)	AC grid frequency	50/60 Hz	50/60 Hz
	Max. output current	25A	33.3A
	Adjustable power factor	0.8leading...0.8lagging	0.8leading...0.8lagging
	THDi	<3%	<3%
Output data (Backup*)	AC grid connection type	Three phase	Three phase
	Max. apparent power	15000VA	20000VA
	Nominal AC voltage	380V/400V	380V/400V
	AC grid frequency	50/60 Hz	50/60 Hz
Output data (EV Charger)	Charge voltage	300~1000Vdc	300~1000Vdc
	Charge power	DC 10kW	DC 15kW
	Charge current	33.3A max	50A max
Efficiency	Max. efficiency	98%	98%
	European efficiency	97.50%	97.50%
	MPPT efficiency	99.90%	99.90%
Input data (DC)	DC reverse polarity protection	Integrated	Integrated
	DC switch	Integrated	Integrated
	DC/AC surge protection	Type 3	Type 3
	Insulation resistance monitoring	Integrated	Integrated
	AC short-circuit protection	Integrated	Integrated
	Ground fault monitoring	Integrated	Integrated
	Grid monitoring	Integrated	Integrated
	Anti-islanding protection	Integrated	Integrated
	Residual-current monitoring unit	Integrated	Integrated
	AFCl protection	Optional	Optional
Others	Operating temperature range	-25°C ... +60°C	-25°C ... +60°C
	Altitude	3,000m(>2,000m Derating)	3,000m(>2,000m Derating)
	Self-Consumption night	< 15W	< 15W
	Topology	Transformerless	Transformerless
	Cooling	Natural convection	Natural convection
	Protection degree	IP65	IP65
	Relative humidity	0%~95%	0%~95%
	DC connection	MC4(Optional)	MC4(Optional)
	AC connection	Connector	Connector
	Display	LED/WLAN+APP	LED/WLAN+APP
	Interfaces	RS485, CAN, WLAN, LAN, 4G	RS485, CAN, WLAN, LAN, 4G
	Warranty	5 Years	5 Years
	Dimensions (LxWxH)	530x256x660mm	530x256x660mm
	Weight	≈36kg	≈36kg