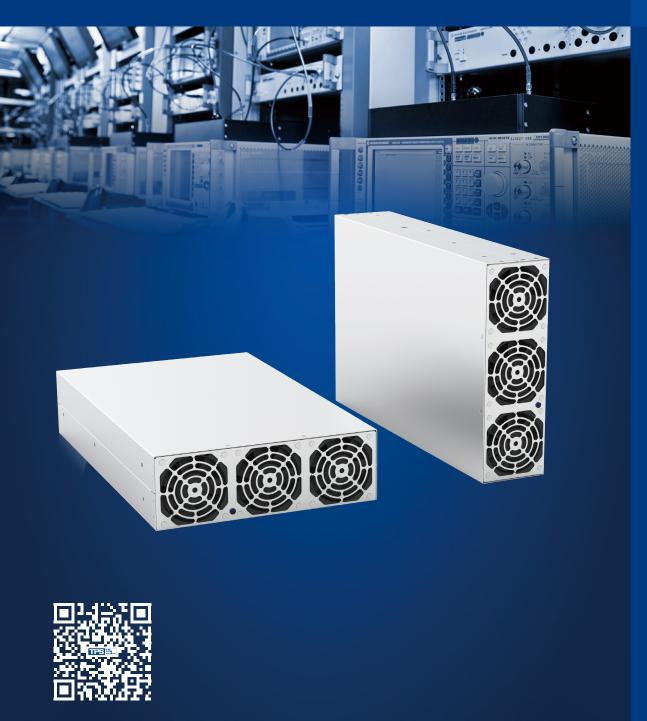


Bidirecitonal Power Module SpecificationTPS-BM9014KTIF





Bidirecitonal Power Module Specification



Features

- AC three-phase without neutral line, no neutral line current
- Three-phase AC-DC bidirectional isolation and energy flow, reliable inverter in grid-connected system
- Mature and excellent soft switching technology, more reliable and efficient
- High efficiency: AC to DC 92%, DC to AC 91.5%
- Bidirectional high PF >0.99, low THDi <5%
- Bidirectional swtich with seamless voltage, meeting the fast response requirements of test equipment
- Strong adaptability, adapt to unstable grids and harsh environments, no derating at 45°C
- Modular design, intelligent expansion, automatic parallel operation
- Perfect fault protection function
- Designed to comply with IEC62477-1 and EN55032 standards
- Can pass UL, CE, TUV certification

Applications

- Battery module testing
- · Cells formed in series
- Power bidirectional testing
- Energy recyclable power aging

Profile

TPS-BM Three-phase MV 90V AC-DC BPM

TPS-BM three-phase medium voltage bidirectional power module adopts advanced three-phase none neutral line technology to realize AC-DC bidirectional energy conversion in three-phase system, completely solves the problem of neutral line current in the power system. The mature soft switching technology is also adopted. The module also provides high performances such as high reliability, strong adaptability of grids and environments, bidirectional seamless switching without voltage difference, high efficiency, high power density, high PF, low THDi, intelligent and so on.

Specification					
Product Model			TPS-BM9014KTIF		
	Rated Output Capacity		14000W		
	AC Input	Wiring Mode	3Ph+PE		
		Rated Voltage	380/400/415VAC		
		Voltage Range	323~456VAC		
		Frequency Range	50/60±5Hz adaptive control		
		Input Current	≤28A		
AC to DC Direction		THDi	<5% @380VAC, full load, power grid THDu ≤2%		
		PF	0.99 @380VAC, full load, power grid THDu ≤2%		
	DC Output	Rated Voltage	90VDC		
		Rated Current	155.6A		
		Voltage Accuracy	±1%		
		Ripple Voltage	1.5V		
		Peak Efficiency	92%		



TPS-BM9014KTIF **Bidirecitonal Power Module Specification**

	Rated Input Capacity		13000W		
	DC Input	Rated Voltage ^①	90VDC		
		Rated Current	144.5A		
DC to AC	AC Output	Voltage Range	323~456VAC		
Direction		Frequency Range	50/60 ± 5Hz adaptive control		
		THDi	<5% @380VAC, full load, power grid THDu ≤2%		
		PF	0.99 @380VAC, full load, power grid THDu \leq 2%		
		Peak Efficiency	91.5%		
	System	Power Direction	Bidirectional high frequency isolation		
		Cooling System	Forced air cooling, intelligent control		
		Air Flow	Default: Front inlet and rear outlet (front: fan; rear: terminal)		
		Expandability	8		
		Non-balance of Current Sharing	<5%		
	Environment	Operation Temperature ²	-10°C~45°C full load, 45°C~60°C power derating to 80%		
Complete Machine		Storage Temperature	-40°C~70°C		
Widomiro		Relative Humidity	5~95% (no condesing)		
		Operation Altitude	0~1000m; 1000m~3000m, power derating 1% per 100m rising		
	Interface	Indicator Lamp	Operation: Blue Fault: Red		
		Communication	CAN		
	Mechanical -	Size (W*H*D)	268mm*86mm*435mm		
		Weight	≤10kg		

Note:

- ① DC side voltage exceeding 150VDC will cause power failure
- 2 Shut down due to over temperatuer afer overload

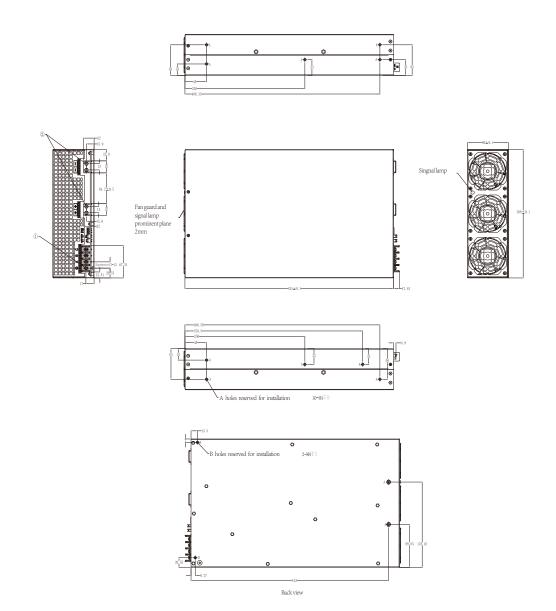


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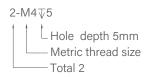


Dimension

• TPS-BM9014KTIF Installation Structure



• Identification explanation



Warning

1. The length of the screw shall not exceed the depth of the hole in the drawiny when the screw is installed at the reserved hole position $\ensuremath{(\mathbb{T})}$. Otherwise it will cause damage to the equipment.

Serial Type		Name	Specification	Quantity	Tightening torque
2	Output terminal fastening screws	GB9074.13-88 series cross slot hexagon head spring flat washer combination screws	M6X12	4pcs	2N·M
1	Input terminal fastening screw	Cross recessed pan head flat washer combination screw	M4X8.5	4pcs	1.5N · M

	0.5~6	± 0.1	Unit	Proportion	Projection identification	
Dimensional tolerance	6~30	± 0.2	mm	1:1		
(GB1804-M level)	30~120	± 0.3				
	>120	± 0.5				