TECLOMAN

Energy Storage Converter

TPCS-100-MP01

TPCS-110-MP01

TPCS-125-MP01

Product Overview

The main function of the energy storage system is to realize the electrical energy conversion between grid and battery, which can be widely used in power generation, transmission, distribution, and consumption of power systems and can run peak-to-valley arbitrage, demand response, and disaster preparedness modes. The main components of the energy storage system include an energy storage converter, battery, BMS, EMS, etc.

Multiple Application Scenarios

- Three-phase four-wire system, supports 100% unbalanced load.
- Multiple devices parallel connection allows different output power requests.

Convenient and flexible

- Modular design, easy installation and operation.
- Flexible configuration for different capacity requests.

Safe And Reliable

- Wide operating temperature range: -35°C~60°C.
- Harsh environment applicable: humid, salt spray, etc.

Intelligent

- Multiple control modes available.
- EMS integrated, intelligent management.

Modle	TPCS-125-MP0I	TPCS-110-MP0I	TPCS-100-MP0I
DC side parameters			
Max. DC voltage		1000V	
Min. DC voltage[1]		580V	
DC voltage operating range		580~1000V	
Max. currenton DC side	216A	190A	173A
AC side parameters (on-grid)			
Rated charge/discharge power	125kW	110kW	100kW
Max. charge/discharge power	150kW	132kW	120kW
Rated charge/discharge current	182A	160A	145A
Max. charge and discharge current	217A	192A	174A
Rated grid voltage		400V	
Allowable grid voltage range		300~460V	
Rated grid frequency		50/60Hz	
Total harmonic distortion rate of current		＜3%（at rated power）	
Power factor		⩾0.99	
Power factor range		-1~1	
Overload capacity		1.2 Pn for 1 minute	
AC side parameters (off-grid)			
Rated output voltage		400V	
Voltage deviation		±2%	
Total harmonic distortion rate of voltage		＜3（linear load）	
Efficiency			
Max.efficiency		98.9%	
Protection			
DC reverse connection protection		Yes	
AC short circuit protection		Yes	
AC output overcurrent protection		Yes	
Surge protection		LevelⅡ	
Insulation impedance monitoring		Yes	
Temperature protection		Yes	

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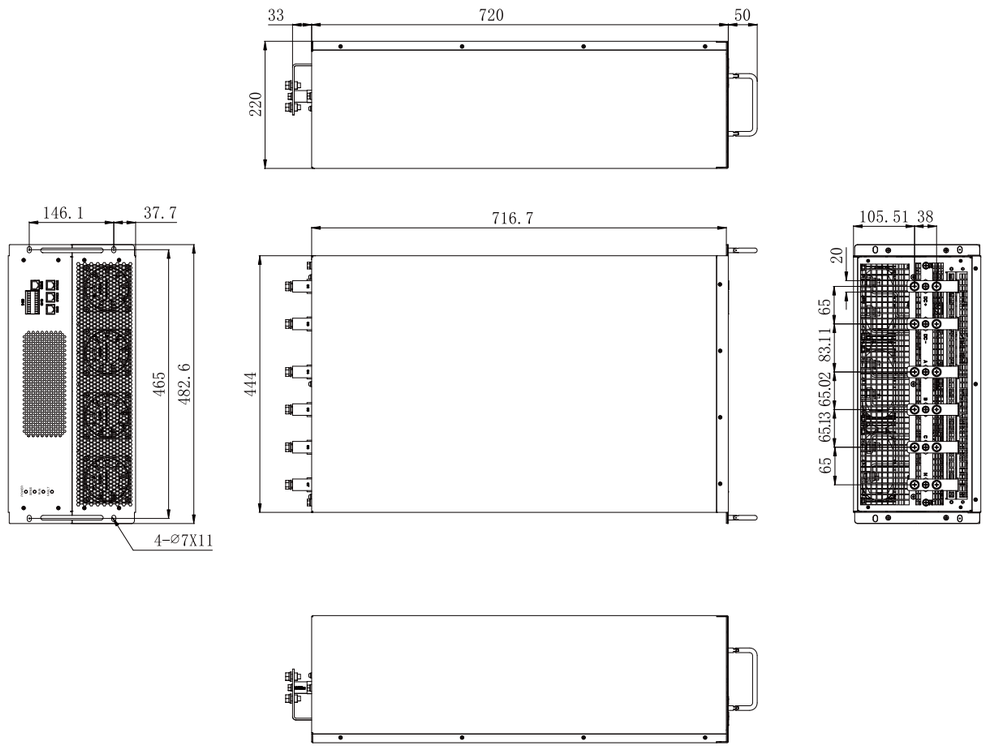
Modle	TPCS-100-MP0I	TPCS-110-MP0I	TPCS-125-MP0I
Basic parameters			
Dimensions(H×W×D)	220×444×720 mm, excluding terminals		
Weight	＜58kg		
Topology	Transformerless		
Ambient temperature	-40~+60°C		
IP rating	IP20 (module and battery packintegrated solution, and the IPrating of the system shouldreach IP54 or above)		
Working environment Mechanical conditions	Sinusoidal steady statevibration:2Hz ⩽f< 9Hz, displacement1.5mm, 9Hz<f< 200Hz, acceleration5m/s2. GB/T 4798.3-2007 3M2		
Cooling mode	Intelligent air cooling		
Max. working altitude	4000m(＞3000m derated)		
Stand-by power consumption	＜12W		
Characteristic			
DC Interface	OT terminal		
AC Port	OT terminal		
Display	LED		
Communication mode	Ethernet / RS485 / CAN		

[1] Minimum DC voltage: In the scenario of off-grid operation requirements, the minimum DC voltage should notbe less than 680 V DC.

Product Dimensions



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