

| PWS1-250K-EX Power Conversion System



Features

Flexible Configuration

- Modular design
- Bi-directional Power Conversion System

High Efficiency & Stability

- Easy installation, reduction of maintenance costs

Extensive Use

- Optional STS to achieve seamless switching between on-grid and off-grid
- Virtual Synchronous Generator (VSG) technology optional

Compliance & Compatibility

- Compatible with various types of battery system
- Support linkage with BMS & EMS

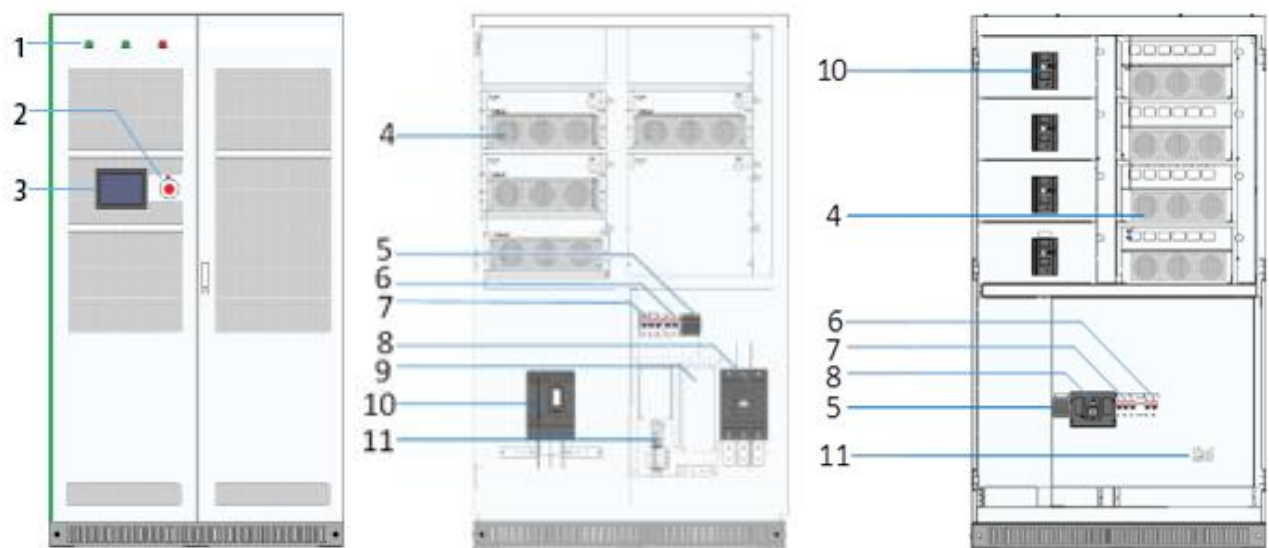
Specification

	PWS1-250K-EX
Utility-interactive Mode	
Battery voltage range	600~900V
DC Max Current	440A
AC voltage	400V(340V~460V)
AC current	360A
Nominal power	250kW
AC frequency	50/60Hz(±2.5Hz)
Output THDi	≤3%
AC PF	Listed: 0.8~1 leading or lagging (Controllable)
	Actual: 0.1~1 leading or lagging (Controllable)
Stand-alone Mode	
Battery voltage range	600~900V
DC Max Current	440A
AC output voltage	400V(±10% configurable)
AC output current	360A(Max 397A)
Nominal AC output power	250kW
AC Max Power	275kW
Output THDu	≤2%
AC frequency	50/60Hz
AC PF	Listed: 0.8~1 leading or lagging (Load-depend)
	Actual: 0.1~1 leading or lagging (Load-depend)
Overload Capability	105%~115% 10min;
	115%~125% 1min;
	125%~150% 200ms
Physical	
Cooling	Forced air cooling with replaceable fan module
Noise	70dB
Enclosure	IP20
Max elevation	3000m/10000feet (> 2000m/6500feet derating)
Operating temp.	-20°C to 50°C (De-rating over 45°C)
Humidity	0~95% (No condensing)
Size (W*H*D)	1200*2160*800mm
	47.2*85*31.5 inches
Weight	1280kg
Installation	Vertical installation

Specification

Other	
Peak efficiency	96.10%
Protection	OTP, AC OVP/UVP, OFP/UFP, EPO, AC Phase Reverse, Fan/Relay Failure, OLP, GFDI, Anti-islanding
Configurable protection limits	Upper/Lower AC Voltage/Frequency limit, Battery EOD voltage.
AC connection	Grid-tied:3-Phase+PE Off-grid:3-Phase+N+PE
Display	Touch Screen
Communication	RS485,CAN,Ethernet
Isolation	Built-in Transformer
Certification and conformity	IEC62477, IEC61000

Appearance



Visible Components of the PCS

Dc 1 branch series

Dc 1 branch series

Position	Designation	Description
1	Indicator lights	
2	EPO (Emergency Power Off)	
3	Touch Screen	
4	PCS-AC (4 module(s))	62.5KW 1 set
5	Manual Soft Start Switch	
6	AUX Power supply switch	
7	SPD switch	
8	AC Switch	
9	U2 Main control board	
10	Battery DC Branch Switch	1 to 4 set DC Branch Switch
11	Wiring terminal	

Components position 6 AUX power supply switch, 7 SPD switch, 11 Wiring Terminal can be seen after unfold the dam-board.