



MODULAR OUTDOOR INTEGRATED CABINET

PSO Series Modular outdoor integrated cabinet



Product introduction:

The air cooling outdoor cabinet-on/off grid machine integrates energy storage batteries, PCS, EMS, DCDC, air conditioning and fire protection systems. Suitable for various application scenarios, and can be widely applied in small-scale commercial and industrial enterprises, hospital buildings, residential energy storage, etc. Equipped with features such as peak shaving, self-consumption, dynamic scaling, and planned curve response.

Performance characteristics:

- Highly integrated. All in one, factory prefabricated design. Flexible deployment, plug and play
- Safe and efficient. High efficient neutral point clamped topological structure. Support EMS and BMS system linkage
- Intelligent and friendly. Programmable working mode, touch screen control. Support photovoltaic AC coupling, DC coupling access
- Grid friendly. Equipped with four-quadrant adjustment function for active and reactive power. Equipped with LVRT and HVRT functions

Model	PSO50-100	PSO63-120	PSO80-160	PSO105-200	PSO105-225	PSO125-250
On grid parameter						
Rated power(KW)	50	63	80	105	105	125
Maximum output(KW)	55	69	88	116	116	138
Rated grid Voltage(V)	400					
Rated current (A)	72	90	115	167	167	200
Rated grid frequency (Hz)	50±5					
Power factor	0.99					
THDI	<3% (Rated power)					
Overload capacity	110% Long term					
Off grid parameter						
Rated output voltage(V)	400V					
Rated output power(KW)	50	62.5	80	100	100	125
Rate grid frequency (Hz)	50±5					
THDU	<3% (Linear power)					
Unbalanced load capacity	100%					
Overlad capacity	110% Long term					
Battery parameter						
Cell type	150Ah	150Ah	230Ah	280Ah	314Ah	320Ah
Rated voltage(V)	716.8	806.4	716.8	716.8	716.8	761.6
Operation voltage(V)	650-796	730-895	650-796	650-796	650-796	690-845
Battery capacity(kWh)	108	121	165	201	225	244
PV parameter						
PV voltage range(V)	500-620	500-700	500-620	500-620	500-620	500-660
Maximum input power(KWp)	50			100		
Maximum efficiency	≥99%					
Number of MPPT tracker	1			2		
General parameter						
System efficiency	PCS(≥98%); System(>90%); Battery charge and discharge rate (≤0.5C)					
Protection	Battery reverse connection, overcurrent and overvoltage protection, Surge protection,Fire protection					
Dimensions(D*W*H) mm	1400*1400*2200		1400*1950*2200			
Weight (t)	2.5	2.8	3	3.3	3.7	4
Ambient temperature (°C)	-20/50 (De-rating power from 45°C)					
Charging temperature (°C)	0/50					
Discharging temperature (°C)	-10/60					
Ambient humidity (%RH)	<95% RH, non-condensing					
Working altitude (m)	5000 (De-rating power from 2000m)					
Cooling method	Industrial air conditioning (battery compartment)/forced air cooling (electrical compartment)					
Communication interface	CAN/RS485/Ethernet					
Communication Protocol	RTU/MODBUS-TCP					