

Powerfree cabinet

Features

- **Safety**
Automotive grade LFP battery
- **Flexible transportation method**
Support lift and fork transportation.
- **Efficient cooling system**
Adopt forced cooling to cool battery effectively.
- **High compatibility**
Compatible with a wide range of PCS brand include Ateess®.
- **Extensible capacity**
Max extensible capacity can reach 1200KWh with Pand DC/DC Box.
- **All in one design**
BMS and battery are involved in one cabinet together.



Specification

GENERAL INFORMATION			
Battery Type	LiFePO4 (Lithium Iron Phosphate)		
Usable Capacity (KWh) @0.5C, 25°C	80	100	120
Nominal Voltage (VDC)	410	460	512
Operating Voltage Range	364.8-467.2	410.4-525.6	456-584
Operating Temperature Range	Charge: 0°C ~ 50°C Discharge: -20°C ~ 55°C		
Cycle Life @ 90% DoD @0.5C, 25°C	3000 cycles EOL 70%		
Dimensions (cm)	1300 x 1000 x 1680 mm (W x D x H)		
Weight (kg)	1320	1440	1560
CHARGE / DISCHARGE			
Min working Voltage (V)	364.8	410.4	456
Max working Voltage (V)	467.2	525.6	584
Max charge Current	150A continuous @ 25°C		
Max discharge Current	160A continuous @ 25°C		
Charge Power (KW)	45	50	56
Discharge Power (KW)	61	69	76
Self-discharge Rate	< 2% per month		
PROTECTION			
In-line Fuse	1 x 250A		
Over-current Protection	250A		
Min cell volt (V)	2.85		
Max cell volt (V)	3.65		
Enclosure protection grade	IP32		

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Features

- Flexible switch between on-grid and off-grid
- Programmable working mode
- Support remote control
- Smart HMI screen
- Max 4 PCS in parallel



Specification

AC SPECIFICATIONS					
Apparent Power	33kVA	55kVA	110kVA	132kVA	165kVA
Rated Power	30kW	50kW	100kW	120kW	150kW
Rated Voltage	400V				
Rated Current	43A	72A	144A	173A	217A
Voltage Range	360 V ~ 440 V				
Rated Frequency	50 / 60Hz				
Frequency Range (Grid)	45 ~ 55Hz / 55 ~ 65Hz				
THDI (Grid)	< 3%				
AC Input (Grid)	60kVA	100kVA	200kVA	240kVA	240kVA
THDU (Off-grid)	≤ 2% linear				
Overload Capability (Off-grid)	110% for 10 minutes / 120% for 1 minute				
DC SPECIFICATIONS (BATTERY & PV)					
Max. PV Open Circuit Voltage	1000 VDC				
Max. PV Power	45kWp	75kWp	150kWp	180kWp	225kWp
MPPT Voltage Range	480 ~ 800 VDC				
Battery Voltage Range	352 ~ 600 VDC				
Battery Voltage @ Max. Power	450 ~ 600V	500 ~ 600V	500 ~ 600V	517 ~ 600V	500 ~ 600V
Max. Charge Power	45kW	75kW	150kW	180kW	225kW
Max. Discharge Power	33kW	55kW	110kW	132kW	165kW
Max. Charge Current	100A	150A	300A	350A	450A
Max. Discharge Current	93A	156A	313A	374A	467A
GENERAL INFORMATION					
IP Rating	IP20				
Operating Temperature Range	-25°C ~ 55°C				
Relative Humidity	0 ~ 95% non-condensing				
Dimensions (W x D x H)	950 x 750 x 1860mm		1200 x 800 x 1900mm		
Weight	355kg	610kg	948kg	1025kg	1230kg
Standby Consumption	< 30W				