

best-AIO system 50kW 110kWh



Advanced Integration

EMS, hybrid inverter and BMS integration technology

RPC battery installation is plug and play, no additional wiring is needed



Safety

Flammable gas, smoke and temperature detection

Built-in aerosol fire suppression systems



Protection

IP54 dustproof & waterproof
Intelligent air conditioner for cooling



Scalability

Support system expansion
a maximum 500kW & 1.1MWh



AIO System Specification

Cabinet Size	L1650*W820*H2075mm
Weight(include 22 batteries and inverter)	Around 1750kg
IP Rating	IP54
Operating Temperature	-20~60°C
Altitude	<4000m, 2000m derating
Cooling	Intelligent air conditioner
Installation Method	Floor-mounted

Battery Specification

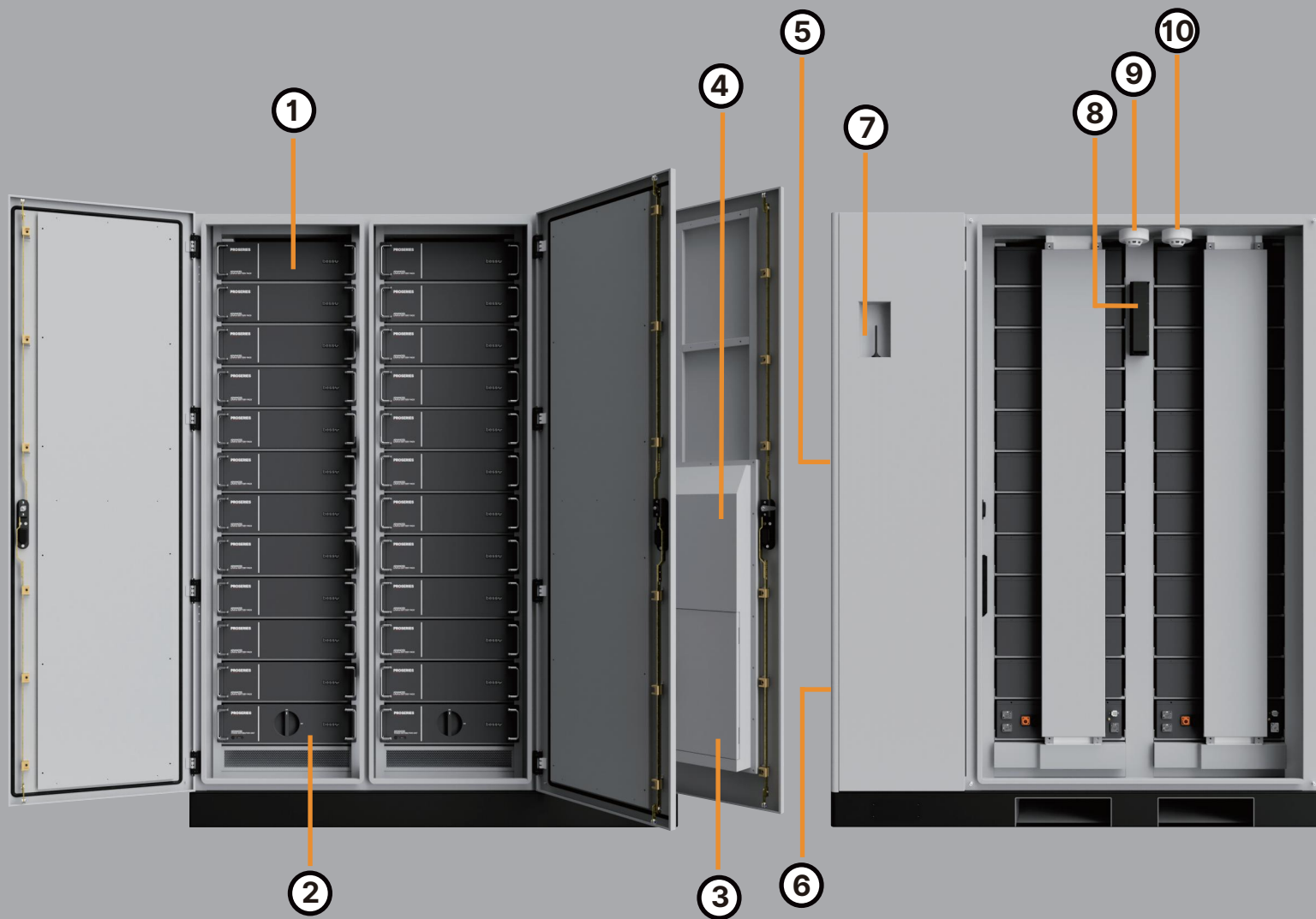
Cell Chemistry	LiFePO4
Capacity	5.12kWh per battery, max 112.64kWh
Nnominal Voltage	51.2V per battery, max 563.2V
Max. Charge/Discharge Current	80A
Certification	UN38.3 / IEC62619 / IEC62477 / CE
Life Cycles	6000+

PV Specification

Max. PV Arry Power	100kW
Max. PV Input Power	80kW
Max. PV Input Voltage	1000V
PV Start-up Voltage	180V
MPPT Range	150V-850V
Rated PV Input Voltage	600V
Max. Operating PV Input Current	36A+36A+36A +36A

AC Specification

Rated AC Input/Output Active Power	50kW
Max. AC Input/Output Apparent Power	55kVA
Rated AC Input/Output Current	75.8A/72.5A
Max. AC Input/Output Current	83.4A/79.8A
Max. Continuous AC Passthrough(grid to load)	200A
Peak Power(off-grid)	1.5 times of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range	220/380V, 230/400V, 0.85Un-1.1Un
Rated Input/Output Grid-Frequency/Range	50/45-55Hz, 60/55-65Hz
Grid Connection Form	3L+N+PE
Total Current Harmonic Distortion THDi	<3%(of nominal power)
DC Injection Current	<0.5% In



① Battery Module

② Battery Control Unit

③ EMS

④ Emergency stop(in another side)

⑤ Hybrid inverter

⑥ Air conditioner

⑦ WiFi Antenna

⑧ Aerosol fire suppression device

⑨ Smoke detector

⑩ Heat detector