

VAULT AIO system 30kW 50kWh



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 heat detection

Built-in aerosol fire suppression system



Protection

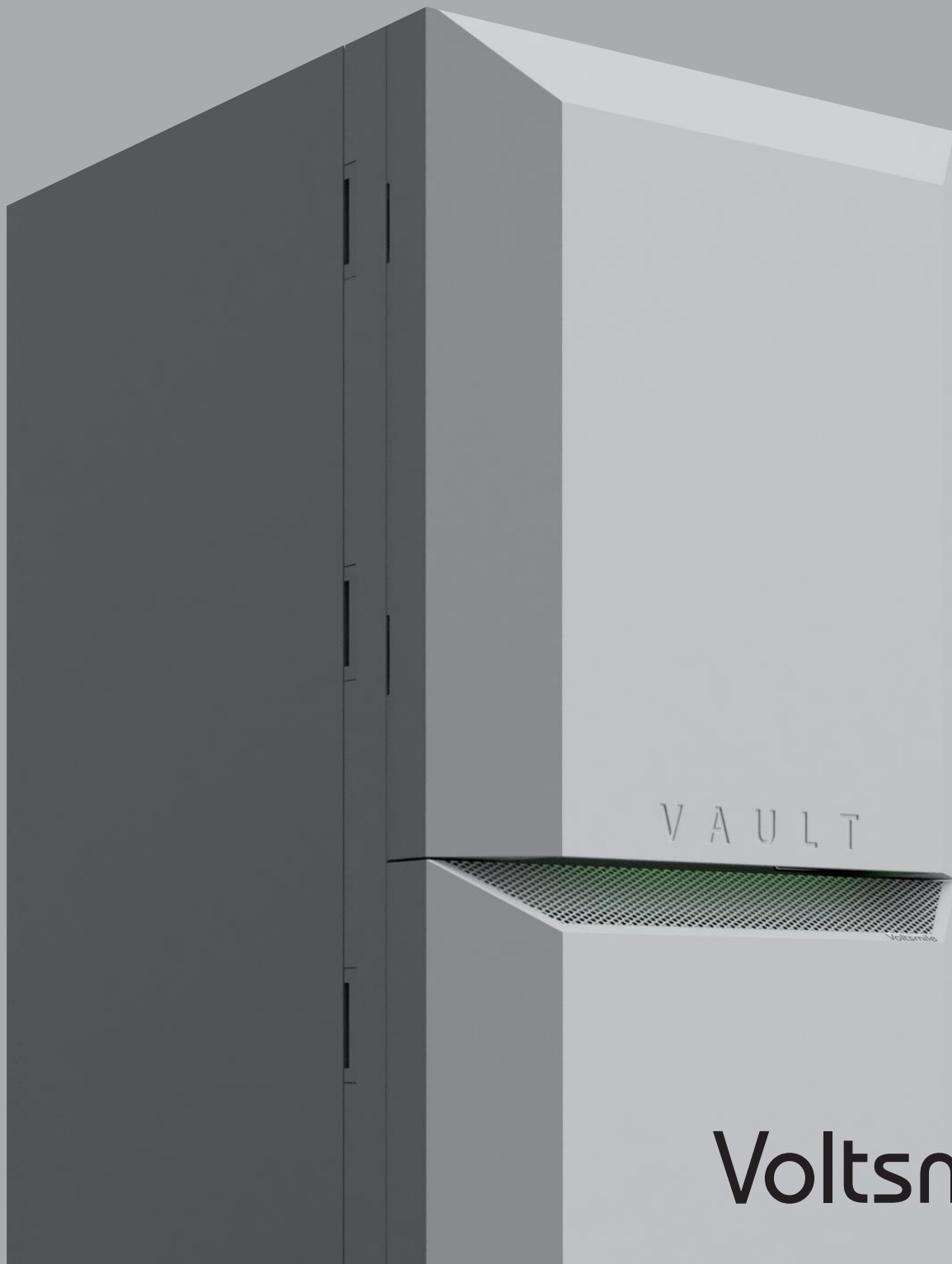
IP54 dustproof & waterproof

Intelligent air conditioner for cooling



All-in-one

30kW & 50kWh on-grid / off-grid all-in-one system



Voltsmile

AIO System Specification

Cabinet Size	L700*W995*H2070mm
Weight(include 10 batteries and inverter)	Around 840kg
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 51.2kWh
Nominal Voltage	51.2V per battery, max 512V
Max. Charge/Discharge Current	80A
Certification	UN38.3 / IEC62619 / IEC62477 / CE
Life Cycles	6000+

PV Specification

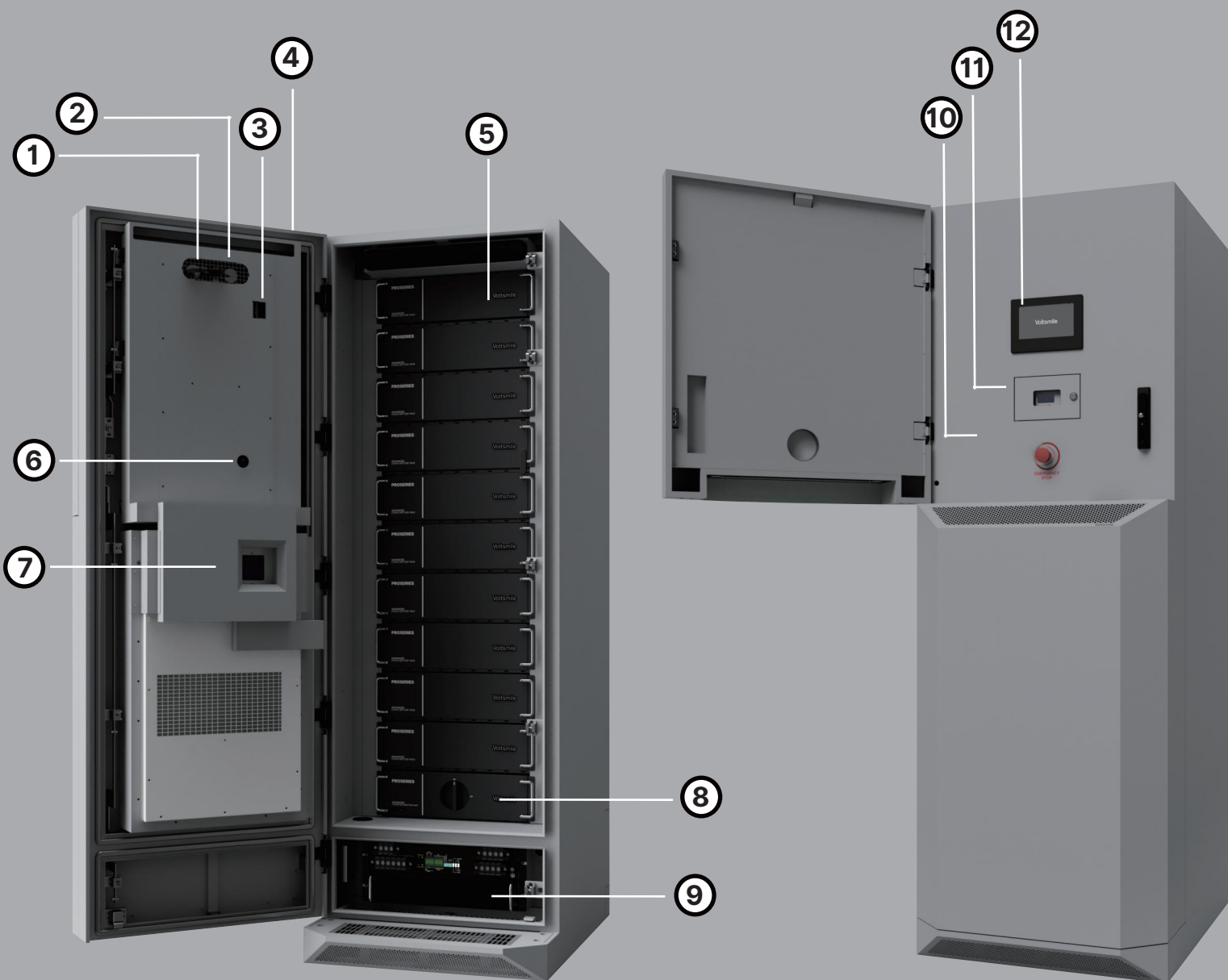
Max. PV Array Power	19.2kW + 19.2 kW
Max. PV voltage	850V
PV Start-up Voltage	250V
MPPT Range	200V-800V
PV Input Current	32A+32A

AC Specification [On-grid]

Rated AC Power	30kVA
Rated Current	43.5A
Rated Grid Voltage Range	400V / 230V
Grid Voltage Range	-20%~15%
Grid Frequency/Range	50Hz(47Hz~52Hz) or 60Hz(57Hz~62Hz)
Total Current Harmonic Distortion THDi	<3%
Power Factor	-1 ~ 1

AC Specification [Off-grid]

Rated Output Power	30kVA
Max. Output Power	33kVA
Rated Output Current	43.5A
Max. Output Current	48A
Rated Voltage	400V / 230V
Output Voltage Harmonics	<3%(resistive load)
Unbalance	100%
Frequency Range	50/60Hz



① Smoke detector

② Heat detector

③ Aerosol fire suppression device

④ WiFi antenna

⑤ Battery module

⑥ LED strip adjustment button

⑦ Air conditioner

⑧ Battery control unit

⑨ Hybrid inverter

⑩ Emergency stop

⑪ Smart meter

⑫ EMS