

VAULT 30 AIO system 12kW 30kWh



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

3-Phase 12kW & 30kWh all-in-one system



Voltsmile

AIO System Specification

Cabinet Size	L700*W930*H2050mm
Weight(include 6 batteries and inverter)	650kg
IP Rating	IP54
Operating Temperature	-20~60°C
Altitude	<4000m
Cooling	Intelligent air conditioner
Communication with BMS	CAN/RS485

Battery Specification

Capacity	5.12kWh per battery, max 6 batteries
Nnominal Voltage	51.2V
Voltage Range	43.2V-57.6V
Max. Charge/Discharge Current	100A per module(Limited by the inverter power, the system max charge/discharge current is 240A)
Life Cycles	6000+

PV String Specification

PV Max. DC Input Power	15.6KW
PV Input Voltage	550V (160V~800V)
PV Start-up Voltage	160V
MPPT Range	200V-650V
PV Input Current	26A+13A

AC Output/Input Specification

Rated AC Input/Output Active Power	12kVA
Rated AC Input/Output Current	18.2/17.4A
Rated Grid Voltage	380/400Vac (Three phase)
Rated Grid Voltage Range	-20%~15%
Rated Input/Output Grid Frequency/Range	50Hz(47Hz~52Hz) or 60Hz(57Hz~62Hz)
Total Current Harmonic Distortion THDi	<3% (of nominal power)
Power Factor Adjustment Range	0.8 leading to 0.8 lagging



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|--|---|
| ① EMS | ⑧ WiFi Antenna |
| ② Smart meter | ⑨ Hybrid inverter |
| ③ Emergency stop | ⑩ DC switch |
| ④ Smoke / CO / VOC / heat detector | ⑪ Battery module |
| ⑤ Air conditioner | ⑫ Aerosol fire suppression device |
| ⑥ Air conditioner controller | ⑬ Dry contact for external alarm system |
| ⑦ DN32 connector + water pipe + nozzle
for external firefighting system | |