



### RPES-SMAIO2(6KWPLUS-200AH)

#### PV (DC Input)

Recommended Max. PV Input Power	6000W
Max. Input Voltage	500V
MPPT Operating Voltage Range	85V~450V@75Vstart up)
Number of MPPT	1
Max. Number of Input Strings Per MPPT	1
Max. Input Current Per MPPT	27A
Max. Short-Circuit Current Per MPPT	35A

#### Grid (AC Input)

Max output power	6000W
Max output current	50A
Rated grid voltage	220/230/240V (L, N, PE)
Rated grid frequency	50/60Hz
Acceptable range	170-280 Vac (for UPS) 90-280 Vac (for home application)

#### Battery Parameters (Bidirection)

Battery type	LiFePO4
Battery voltage range	40-60 Vdc
Battery capacity	10.24kWh
Rated Battery Voltage	48Vdc/51.2Vdc
Max. discharge current	120A/130A
BMS Communication Mode	Software Version

#### Back-up Output (AC Output)

Rated output power	6000W/6000VA
Rated output current	27.3A
Rated output voltage/Frequency	220/230/240V (L, N, PE) 50/60Hz
Surge power	12000VA5s
THDV (@linear load)	<3%

#### Efficiency

Peak Efficiency	98%
Max. MPPT Efficiency	99.90%
IP Rating	IP21

#### General Parameters

Operating temperature range	-10°C~50°C
Relative humidity range	10%~95%
Max. operating altitude	>2000m derating
Standby self-consumption	<10W
Installation type	Installation type
Cooling mode	Fan Cooling
Dimension D*W*H	450x450x515 (mm)
Weight	=118kg

#### INVERTER MODE



#### PN MODE



#### UTILITY MODE



### » Features

- **Safe & Reliable:** LiFePO4 battery with intelligent BMS for maximum protection
- **Modular & Expandable:** Scale from 10.24kWh to 51.2kWh, with customizable options.
- **Smart Energy Management:** WiFi/GPRS monitoring via iOS & Android
- **High-Efficiency Charging:** Built-in 120A MPPT solar controller, PV input 60-500VDC
- **Rugged & Durable:** Anti-dust design, ideal for harsh environments
- **Seamless Power Supply:** Dual output with pure sine wave inverter (on/off-grid)