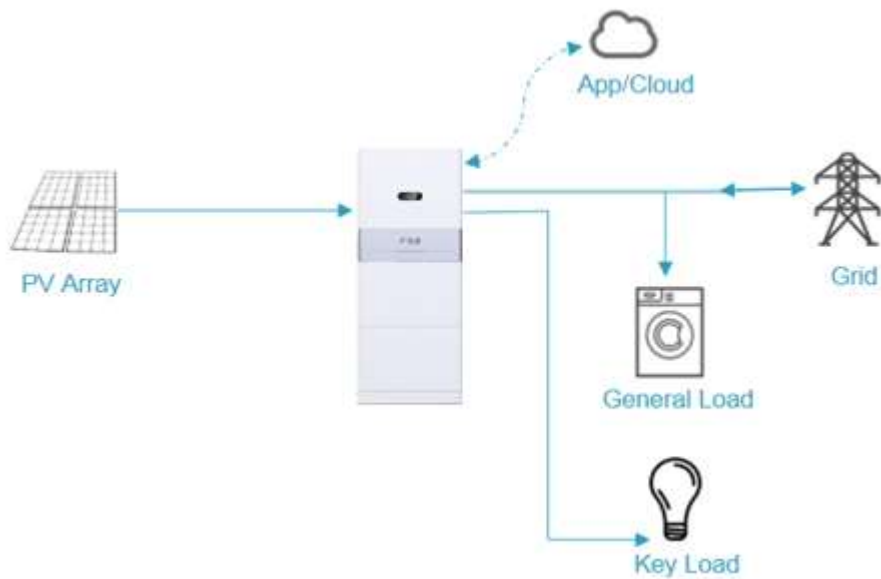




Power One Series Energy Storage System



- ◆ Remote management and maintenance
- ◆ Support low-temperature environment operation
- ◆ Building block design, saving installation time
- ◆ Intelligence and Complete battery protection
- ◆ Flexible energy and power configuration
- ◆ Long Life LFP Cell

7 11 12



Hybrid Inverter Parameter

| Hybrid Inverter Model | FEB 3k LA1 | FEB 3k6 LA1 | FEB 4k LA1 | FEB 4k6 LA1 | FEB 5k LA1 | FEB 6k LA1 |
|---|---|-------------|------------|-------------|------------|------------|
| Off-grid Output | | | | | | |
| Rated output power | 3kVA | 3.6kVA | 4kVA | 4.6kVA | 5kVA | 6kVA |
| Maximum output power | 3kVA | 3.6kVA | 4kVA | 4.6kVA | 5kVA | 6kVA |
| Maximum output current | 13.6A | 16.4A | 18.2A | 20.8A | 22.7A | 27.2A |
| Rated output voltage | 230V | | | | | |
| Rated output frequency | 50/60Hz | | | | | |
| THDu (@linear load) | <2% | | | | | |
| Switching time | <20ms | | | | | |
| On-grid Parameter | | | | | | |
| Rated output power | 3.5kW | 3.6kW | 4kW | 4.6kW | 5kW | 6kW |
| Maximum grid input power | 3.5kW | 3.6kW | 3.6kW | 3.6kW | 5kW | 6kW |
| Maximum output current | 13.6A | 16.4A | 18.2A | 20.8A | 22.7A | 27.2A |
| Maximum grid input current | 16.4A | 22.7A | 22.7A | 27.2A | 22.7A | 27.2A |
| Rated grid-connected voltage | 230V | | | | | |
| Grid voltage range | 184-264V | | | | | |
| Rated grid frequency | 50/60Hz | | | | | |
| Grid frequency range | 45Hz~55Hz/55Hz~65Hz | | | | | |
| Power factor | ~1 (0.8 lead-0.8 lag) | | | | | |
| THDi (@rated power) | <3% | | | | | |
| PV Input | | | | | | |
| Maximum input power② | 4500Wp | 6000Wp | 6000Wp | 8000Wp | 8000Wp | 9000Wp |
| Maximum input voltage | 600V | | | | | |
| Starting voltage | 95V | | | | | |
| MPPT voltage range | 80~550V | | | | | |
| MPPT full load voltage range | 350~500V | | | | | |
| Rated voltage | 360V | | | | | |
| PV input channels /Number of MPPTs | 2/2 | | | | | |
| Number of strings of each MPPT input | 1 | | | | | |
| Maximum input current of each MPPT | 13A/13A | | | | | |
| Maximum short-circuit current of each MPPT | 18A/18A | | | | | |
| Battery Parameter | | | | | | |
| Battery Type | LFP (LiFePO4) | | | | | |
| Rated battery voltage | 51.2V | | | | | |
| Battery voltage range | 42V-58V | | | | | |
| Communication interface | RS485/CAN | | | | | |
| Max. Charge/Discharge Power | 3kW | 3.6kW | 4kW | 4.6kW | 5kW | 5kW |
| Max. Charge/Discharge Current | 75A | 85A | 85A | 100A | 100A | 100A |
| Efficiency | | | | | | |
| European efficiency | 97.2% | 97.3% | 97.3% | 97.4% | 97.5% | 97.5% |
| Maximum efficiency | 97.5% | 97.5% | 97.8% | 97.8% | 98% | 98% |
| Maximum battery charge/discharge efficiency | 95.2% | | | | | |
| General parameters | | | | | | |
| Installation method | Wall-mount | | | | | |
| Operating temperature range | -25°C~+60°C | | | | | |
| Operating humidity range | 0~100% | | | | | |
| Monitoring | LED/APP/WIFI | | | | | |
| Communication port | RS485/CAN | | | | | |
| Degree of protection | IP65 | | | | | |
| Noise | <25dB (A) | | | | | |
| Standby power consumption | ≤10W | | | | | |
| Permissible altitude | <4000m (≤3000m under full load, every increase of 100m, the power will be reduced by 5%) | | | | | |
| Condensation method | Self-heating and heat dissipation | | | | | |
| Weight | 23kg | | | | | |
| Dimensions(W*D*H) | 640mm*200mm*480mm (Including casing) | | | | | |

| | |
|-------------------------|--|
| Standard warranty | 5 years |
| Protection | PV Insulation Resistance Detection, Residual Current Monitoring, Islanding Protection, Overvoltage and overload protection, AC Short Circuit Protection, Surge Protection, Lightning protection, PV Reverse Polarity Protection. |
| Safety standard | IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2 |
| EMC | EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4 |
| Grid-connected standard | VDE-AR-N 4105, VDE V 0126-1-1, G98/G99, CEI 0-21, EN50549, NRS 097-2-1, AS 4777.2, R25 |

Battery Module Parameter

| | |
|----------------------------------|--|
| Module Model | LV5320-S1 |
| Battery Type | LFP 16S1P |
| Total Capacity *1 | 5.32kWh |
| Rated Capacity*2 | 5.05kWh |
| Nominal Voltage | 51.2V |
| Working Voltage | 43.2~57.6V |
| Max. Charge/Discharge Current *3 | 50A/100A (Depend on the temperature and SOC of battery.) |
| Operating Temperature | Charge: -10 ~ 50°C Discharge: -20 ~ 50°C |
| Operation Humidity | 0~95% (No Condensation) |
| Display | LED |
| Communication | RS485, CAN |
| Cycle Life | > 6000 (25°C) |
| Scalability | Recommended ≤3 |
| Weight | 45Kg |
| Dimension(W*H*D) | 640mm*170mm*400mm |
| Certification | CE, IEC62619, IEC/EN61000-6-1/3, UN38.3, IEC62368 |

*1 Test conditions: Fresh battery, cell voltage 2.0~3.65V, 25 ± 2 °C , 0.5C charge and 1C discharge.

*2 Test conditions: Fresh battery, 95% depth of cell discharge ,25 ±2 °C , 0.5C charge and 1C discharge.

*3 Depend on the temperature and SOC of battery.

Base box

| | |
|-------------------|------------------|
| Weight | 3Kg |
| Dimensions(W*D*H) | 640mm*140mm*50mm |

System parameter

| | 1 | 2 | 3 |
|--|---|--------------------|--------------------|
| Number of Module | | | |
| Total Capacity | 5.32 kWh | 10.64 kWh | 15.96 kWh |
| Rated Capacity | 5.05kWh | 10.10kWh | 15.15kWh |
| Max. Battery Charge/Discharge Power | 3kW/3.6kW/4kW/4.6kW/5kW/6kW | | |
| Rated output power/Off-grid | 3kVA/3.6kVA/4kVA/4.6kVA/5kVA/6kVA | | |
| Rated output voltage _Frequency/Off-grid | 230V_50/60Hz | | |
| Rated output power/On-grid | 3.5kW/3.6kW/4kW/4.6kW/5kW/6kW | | |
| Maximum grid input power/On-grid | 3kW/3.6kW/3.6kW/3.6kW/5kW/6kW | | |
| Rated output voltage _Frequency/On-grid | 230V_50/60Hz | | |
| Max. PV Input Power | 4500Wp/6000Wp/6000Wp/8000Wp/8000Wp/9000Wp | | |
| Operating Temperature | Charge: -10 ~ 50°C Discharge: -20 ~ 50°C | | |
| Operation Humidity | 0~95% (No Condensation) | | |
| Storage Temperature | 0°C ~ 45°C (Recommended) | | |
| Storage Humidity | ≤85% (RH) | | |
| Display | LED, App | | |
| Communication | RS485, CAN, WIFI | | |
| Cooling Type | Natural cooling | | |
| Operation Altitude | 2000m | | |
| Ingress Protection Grade | IP65 | | |
| Weight | 72Kg | 117Kg | 162Kg |
| Dimensions(W*D*H) | 640mm*200mm*1160mm | 640mm*180mm*1560mm | 640mm*180mm*1960mm |



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