



Z PCS

Power Conversion System

200kW

- Charge/discharge each cluster independently
- Fast plug and play, easy expansion
- C5M anti-corrosion grade
- Parallel in AC side (maximum 40 sets)
- Grid-forming/black start capability
- Safe and reliable
- Modular design philosophy
- No need advanced technical service personnel
- Horizontal and vertical mounting thermal design
- Higher battery capacity utilization

Technical Data

ZOE-ECS200-HB-A

Input - DC

| | |
|-------------------------|---------------|
| Maximum DC voltage | 1500 Vdc |
| Startup voltage | 1000 Vdc |
| Maximum input current | 224.5 A |
| Full-load voltage range | 1000~1500 Vdc |

Output - AC (on-grid)

| | |
|--------------------------------|--------------------------|
| AC output power | 220kVA@35°C, 200kVA@45°C |
| Rated output voltage | 690Vac, 3W+PE |
| AC voltage range | 607~759 Vac (Adjustable) |
| Rated frequency | 50/60 Hz |
| Rated (Maximum) output current | 167.4 A (184.1 A) |
| Power factor | -1~+1 |
| THDi | <1.5% (100% load) |

Output - AC (off-grid)

| | |
|--------------------------|--------------------------------|
| Rated output voltage | 690Vac, 3W+PE |
| AC voltage range | 607~759 Vac (Adjustable) |
| Rated frequency | 50/60 Hz |
| AC voltage distortion | <1.5% (100% linear load) |
| DC voltage component | <0.5% Un (Linear balance load) |
| Unbalanced load capacity | 100% |

General Data

| | |
|-----------------------------|---|
| Maximum efficiency | 99% |
| European efficiency | 98.5% |
| Isolation mode | Transformerless |
| Protection degree | IP66 |
| Operating temperature range | -40~+60°C (>45°C derating) |
| Relative humidity | 0-100%, non-condensing |
| Cooling concept | Smart air cooling |
| Relative humidity | 4000m (>3000m derating) |
| Communication interfaces | RS485/CAN/Ethernet |
| Certifications | GB/T 34120-2017; GB/T 34133-2017; IEC 62477-1; IEC 61000-6-2; IEC 61000-6-4; EN 50549-1; EN 50549-2 |
| Dimensions (W×D×H) | 810×275×845 mm |
| Weight | 98 kg |