

PC-mini

C&I Energy Storage System
29.9-50kW/57-100kWh



Max. **2** Times
Photovoltaic
Oversizing

Max. **20** A
PV Input Per String

Up to **6** Units
On/off Grid Parallel
Operation

< **65** dB
Low-Noise Operation

280 Ah
Battery Cells

< **10** ms
EPS Switching

100 %
Unbalanced Output

0.86 m²
Footprint



Superb

- 4 MPPTs for solar optimization.
- <10 ms EPS switching.
- Supports 100% unbalanced output, half-wave and surge loads.
- 280Ah long-life cells with 8000 cycles.
- Support generator.

Flexible

- 200% PV Photovoltaic oversizing.
- Max. 20A PV input current per string.
- Parallel operation of up to 6 PCS for both on-grid and off-grid scenarios.

Safe & Reliable

- IP55 (Battery cabinet) / IP66 (Inverter).
- Four-level¹ active and passive fire protection.
- Optional AFCI.

User-Friendly

- High energy density (0.86m² footprint).
- No foundation required.
- <65 dB low-noise operation.

Applications

 Shopping Mall

 Factory

 Farm

 Community

Contact Us

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¹Four-level fire protection includes smoke/temperature detection, aerosol, water suppression, and pressure relief.

PC-mini

Technical Specifications

| Battery Model | DC-57kWh-EC00 | DC-71kWh-EC00 | DC-86kWh-EC00 | DC-100kWh-EC00 ¹ | DC-100kWh-EC10 ² |
|---------------------------------------|--|-----------------------------|------------------------------|------------------------------|------------------------------|
| Battery Data | | | | | |
| Battery Type | LFP , 3.2 V / 280 Ah | | | | |
| Battery PACK Configuration | 1P*16S, 14.33 kWh | | | | |
| Battery Capacity | 57.34 kWh (14.33kWh * 4) | 71.68 kWh (14.33kWh * 5) | 86.02 kWh (14.33kWh * 6) | 100 kWh (14.33kWh * 7) | 100 kWh (14.33kWh * 7) |
| Rated Battery Voltage / Voltage Range | 204.8 V / 179.2...227.2 V | 256 V / 224...284 V | 307.2 V / 268.8...340.8 V | 358.4 V / 313.6...397.6 V | 358.4 V / 313.6...397.6 V |
| Max. Charging/Discharging Current | 150/150 A | | | | |
| Max. Charging/Discharging Power | 30.7 kW / 30.7 kW | 38.4 kW / 38.4 kW | 46 kW / 46 kW | 53.7 kW / 53.7 kW | 53.7 kW / 53.7 kW |
| Rated Charging/Discharging Power | 28.6 kW / 28.6 kW | 35.8 kW / 35.8 kW | 43 kW / 43 kW | 50.1 kW / 50.1 kW | 50.1 kW / 50.1 kW |
| Battery Depth of Discharge | 100% | | | | |
| Usable Capacity | 57.34 kWh | 71.68 kWh | 86.02 kWh | 100 kWh | 100 kWh |
| General Data | | | | | |
| Dimensions (W*D*H) | 750*1150*2250 mm | | | | |
| Weight | ~0.8 t | ~0.9 t | ~1 t | ~1.1 t | ~1.1 t |
| Operating Temperature Range | -20°C...+55°C | | | | |
| Altitude | ≤ 2000 m | | | | |
| Cooling | Smart Air Cooling | | | | |
| Ingress Protection | IP 55 | | | | |
| Corrosion | C5 | | | | |
| Display | LED / APP | | | | |
| Firefighting | Smoke detector, Heat detector, Alarm sounder, Aerosol, Sprinkler Optional: Flammable gas detector, Vent plate | | | | |
| Communication | RS485 / CAN | | | | |
| Installation | Floor-standing | | | | |
| Standard ³ | IEC61000, IEC62040, IEC63056, IEC62477, UN38.3 | | | | |
| Manufacture Country | China | | | | |

¹ DC-100kWh-EC00 denotes Main cabinet

² DC-100kWh-EC10 denotes Parallel cabinet

³ For all standards refer to the certificates category on the WHES website.

PC-mini

S6-EH3P(29.9-50)K-H-AU

Technical Specifications

| Inverter Models | 29.9K | 30K | 40K | 50K |
|--|----------|--------------------|--|----------|
| Input DC (PV side) | | | | |
| Recommended max. PV array size | 59.8 kW | 60 kW | 80 kW | 100 kW |
| Max. input voltage | | | 1000 V | |
| Rated voltage | | | 600 V | |
| Start-up voltage | | | 180 V | |
| MPPT voltage range | | | 150-850 V | |
| Max. input current | | 40 A / 40 A / 40 A | | 4 × 40 A |
| Max. short circuit current | | 45 A / 45 A / 45 A | | 4 × 45 A |
| MPPT number / Max. input strings number | | 3 / 6 | | 4 / 8 |
| Battery | | | | |
| Battery type | | | Li-ion | |
| Battery voltage range | | | 150 - 800 V | |
| Max. charge / discharge power | 32.1 kW | 33 kW | 44 kW | 55 kW |
| Max. charge / discharge current | | | 70 A × 2 ¹ | |
| Number of battery ports | | | 2 | |
| Max. charge / discharge power of each input | 32.1 kW | 33 kW | 35 kW | 35 kW |
| Communication | | | CAN / RS485 | |
| Output AC (Grid side) | | | | |
| Rated output power | 29.9 kW | 30 kW | 40 kW | 50 kW |
| Max. apparent output power | 29.9 kVA | 30 kVA | 40 kVA | 50 kVA |
| Rated grid voltage | | | 3/N/PE, 230 V / 400 V | |
| Rated grid frequency | | | 50 Hz | |
| Rated grid output current | 43.2 A | 43.3 A | 57.7 A | 72.2 A |
| Max. output current | 43.2 A | 43.3 A | 57.7 A | 72.2 A |
| Power factor | | | > 0.99 (0.8 leading - 0.8 lagging) | |
| THDi | | | < 3% | |
| Input AC (Grid side) | | | | |
| Max. AC passthrough current | 86.4 A | 86.6 A | 115.4 A | 144.4 A |
| Rated input voltage | | | 3/N/PE, 230 V / 400 V | |
| Rated input frequency | | | 50 Hz | |
| Input Generator | | | | |
| Max. input power | 29.9 kW | 30 kW | 40 kW | 50 kW |
| Rated input current | 43.2 A | 43.3 A | 57.7 A | 72.2 A |
| Rated input voltage | | | 3/N/PE, 230 V / 400 V | |
| Rated input frequency | | | 50 Hz | |
| Output AC (Back-up) | | | | |
| Rated output power | 29.9 kW | 30 kW | 40 kW | 50 kW |
| Max. apparent output power | | | 1.6 times of rated power, 2 s | |
| Back-up switch time | | | < 10 ms | |
| Rated output voltage | | | 3/N/PE, 230 V / 400 V | |
| Rated frequency | | | 50 Hz | |
| Rated output current | 43.2 A | 43.3 A | 57.7 A | 72.2 A |
| THDv (@linear load) | | | < 2% | |
| Efficiency | | | | |
| Max. efficiency | | | 97.8% | |
| EU efficiency | | | 97.4% | |
| BAT charged by PV max. efficiency | | | 98.5% | |
| BAT charged / discharged to AC max. efficiency | | | 97.5% | |
| Protection | | | | |
| Anti-islanding protection | | | Yes (Active frequency shifting) | |
| Output over current protection | | | Yes | |
| Short circuit protection | | | Yes | |
| Integrated DC switch | | | Yes | |
| DC reverse-polarity protection | | | Yes | |
| Surge protection | | | DC Type II / AC Type II | |
| Integrated AFCI 2.0 | | | Optional | |
| Protection class / Over voltage category | | | PV II, battery II, AC III | |
| General Data | | | | |
| Dimensions (W × H × D) | | | 530 × 880 × 290 mm | |
| Weight | | | 73 kg | |
| Topology | | | Transformerless | |
| Self-consumption (night) | | | < 35 W | |
| Operating ambient temperature range | | | -25...+60°C | |
| Relative humidity | | | 0...95% | |
| Ingress protection | | | IP66 | |
| Cooling concept | | | Intelligent fan-cooling | |
| Max. operation altitude | | | 4000 m | |
| Grid connection standard | | | AS/NZS 4777.2:2020 | |
| Safety / EMC standard | | | IEC 62109-1/-2, IEC 61000-6-2/-4 | |
| Features | | | | |
| PV connection | | | MC4 Quick connection plug | |
| Battery connection | | | Terminal connector | |
| AC connection | | | Terminal Block | |
| Display | | | 7.0" LCD display & Bluetooth + APP | |
| Communication | | | CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN | |
| Country of manufacture | | | China | |

¹ Supporting parallel 140A input.