

## 3.34MW Grid-Forming Energy Storage PCS



### High Energy Efficiency

- Three-level topology, maximum conversion efficiency of 99%
- Intelligent air cooling control system, low losses, reduces system losses by 5%
- Wide DC voltage range (1000Vdc~1500Vdc) without derating
- True grid-forming capability, supports 300% overloading for 10s
- Advanced grid-forming algorithm based on "PSS + Virtual Circuit" with excellent dynamic performance



### Flexible System Solutions

- Modular single-unit design supporting multiple parallel units
- Compatible with various battery system configurations for long-duration charging and discharging
- Compact size, small footprint, easy to transport, hoist, and adapt to diverse scenarios
- Integrated design ensures simple, convenient, and efficient maintenance



### High Reliability

- IP65 protection and C5 corrosion resistance, suitable for various application scenarios
- DC-side short-circuit current breaking capacity of 250KA within milliseconds
- Supports detection and protection for multiple system faults and temperature anomalies
- System coordination enables multiple fault protection mechanisms



### Grid-Friendly

- Supports PQ, VF, SVG, VSG functions and high/low voltage ride-through
- Rapid dispatch capability, off-grid operation, and "black start" functionality
- Compliant with IEC 61850 protocol and supports fast power response

Product Specifications	EAPCS3344KHV
<b>DC-Side</b>	
DC Operating Voltage Range	1000-1500Vdc
Rated Operating Voltage	1250Vdc
Maximum DC Current	3416A
Number of Input Channels	4
<b>AC Side (Grid-Connected)</b>	
Rated Power	3344kVA @45°C
Maximum Apparent Power	10032kVA (≥10s)
Rated AC Current	2800A@45°C
Rated Grid Voltage	690Vac
AC Line Configuration	3P+PE
Grid Voltage Range	-15% ~ +10%
Permissible Grid Frequency	45Hz~55Hz (configurable)
THD	< 3 %
Rated Power Factor	>0.99 (rated power)
<b>AC Side (Off-Grid)</b>	
Rated AC Voltage	690 Vac
AC Voltage Range	-15% ~ +10%
AC Voltage Harmonics	< 3% (at Rated Balanced Resistive Load)
Rated Grid Frequency / Grid Frequency Range	50Hz/45~55 Hz
Reactive Power Adjustable Range	-105% ~ +105%
<b>Safety Functions</b>	
Protection	Surge protection, Grid short-circuit/ground fault, Insulation impedance, Overtemperature fault protection, Low voltage ride-through (LVRT), High voltage ride-through (HVRT), Anti-islanding protection, AC overcurrent/short-circuit protection, DC overcurrent/short-circuit protection, DC reverse polarity protection, Power module fault protection (IGBT)
<b>System Parameters</b>	
Maximum Efficiency	99%
Protection/Anti-Corrosion Grade	IP65/C3 (C5 optional)
Noise	<80dB
Cooling Method	Intelligent forced air cooling
Weight	< 1200kg
Dimensions (W×H×D)	850mm×2447mm×2086mm
Operating Temperature Range	-35°C~60°C
Storage Temperature Range	-40°C~70°C
Operating Relative Humidity	0~95%
Maximum Altitude at Installation Site	5000m (derated above 4000m)
<b>Display and Communication</b>	
External Communication Interface (Monitoring System)	RS485 / Ethernet / CAN
External Communication Protocol (Monitoring System)	Modbus-TCP / IEC61850 / IEC104
HMI	LCD Screen / Bluetooth APP

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\*If there are any changes to the product size and parameters, the latest information shall prevail without further notice.



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