

Certificates:

IEC 62619

EN IEC 61000-6-2

EN IEC 61000-6-4

UN38.3

IEC 60730-1

IEC 62477-1(PCS)

EN 50549-1(PCS)

C10/11(PCS)



C&I BESS (Air-cooled) Specification-200kWh



Flexible Configuration

- 1 converging cabinet compatible with 2 to 10 battery cabinets in parallel
- 1 converging cabinet compatible with up to 2MWh battery energy



Extreme Security

- Cell holographic management
- BMS online monitoring and alarm
- System 5-level overcurrent protection
- Aerosol fire suppression



High Efficiency and Economy

- PCS efficiency up to 98.2%
- Intelligent control of temperature
- System temperature difference <math><5^{\circ}\text{C}</math>



Intelligent and User-friendly

- Compatible with multiple scenarios, such as Backup Power, Energy Arbitrage, Virtual Power Plant and Grid Ancillary Services
- Modular design, convenient installation and operation
- One-click management remotely.

C&I ESS Cabinet Parameter

Name	Parameter
DC parameter	
Cell type	LFP
System battery configuration	1P224S
Battery capacity (BOL) at DC side	200.7kWh
Nominal voltage	716V
Voltage range	616~806V
Rated charge and discharge rate	0.5CP
AC parameter	
Rated AC voltage	400V
Rated AC power	100kW
AC max power	105kW*
Rated AC current	144A
AC max current	152A
Rated grid frequency	50/60Hz
Maximum efficiency	98.2%
Power factor adjustable range	-1~+1
THDi (Rated power)	< 3%
System parameter	
Isolation type	Transformerless
Cooling method	Air-cooled
Fire suppression system	Smoke and heat detectors plus aerosols
Communication interfaces	Ethernet/RS485/CAN
Communication protocols	Modbus TCP/Modbus RTU/CAN
On/off-grid	Both support
Dimension (W * D* H)	1150*1220*2450mm
Weight	2100kg
IP rating	IP55
Anti-corrosion level	C4(up to C5 available)
Operating temperature range	-30°C~50°C(> 45°C derating)
Allowable relative humidity range	≤95% (no condensation)
Compliance	UN38.3, IEC62619, IEC61000-6-2,4 IEC 62477-1, IEC 63056, IEC 62933-5-2

* The output AC power of battery cabinet is limited to a maximum of 105kW, even though the built-in PCS has a higher maximum power of 115.5kW. This can be important for local grid regulations.





Converging cabinet parameter

Name	Parameter
Rated AC voltage	400V, 3W+N+PE
Rated AC power	1000kW
AC max power	1050kW*
Rated AC current	10*152A
Max. compatible battery cabinets	10
Auxiliary power	≤100W
Short circuit protection	Available
Surge protection	Available
Communication interfaces	Ethernet/RS485/CAN
Operating temperature	-30°C~50°C
Operating altitude	4000m(>2000m derating)
Dimension (W * D* H)	800*1050*2450mm
Weight	500kg
IP rating	IP55
Anti-corrosion level	C4(up to C5 available)
Compliance	IEC 61439-2

*The battery's power is limited to a maximum of 10x105 kW, even though the PCS has a higher maximum power capacity of 10x115.5kW. This can be important for local grid regulations.

PCS parameter

Name	Parameter
Rated AC power	105kW
AC max power	115.5kW
Overload capacity	110% long term
AC max current	167A
Nominal voltage(Single phase system)	230V
Operation voltage range(Single phase system)	207~253V
Nominal voltage(Three phase system)	400V
Operation voltage range(Three phase system)	360-440V
Power module dimensions(W*D*H)	484×703×256.5mm
Power module weight	50kg
Compliance	IEC 61000-6-2/-4 IEC 62477-1 EN 50549-1 C10/11

Dimensions and parameters are subject to change without prior notice

Multi scenario solutions

HITE C&I BESS can be deployed on demand to meet the needs of different capacity applications and achieve different multifold capacity configurations of 100kW/200kWh.

Support a variety of application scenarios, energy optimization, frequency regulation, and on/off-grid applications.

