

QUDEOX

QC-215K-O Outdoor Cabinet Energy Storage System

215kWh | Oil Immersion Battery Safety System



Efficient and reliable

High safety LiFePO4 battery chemistry

Battery pack cooling by liquid coolant and oil immersion (unique system for maximum battery explosion-proof safety)

IP67 and IP54 ingress protection and C4 corrosion protection for indoor and outdoor installation



Easy installation and use

Supports multi-cabinet parallel connection for easy system expansion

Intelligent Energy Management System (EMS); local and remote monitoring via web and mobile application

It can provide instant backup power during power outages when used together with a Static Transfer Switch (STS) cabinet



Economical and profitable

High space utilization

Energy independence and cost-effectiveness for business use

| POWERING A SUSTAINABLE WORLD |

Technical Data

QC-215K-O

Battery data	
Battery system model	CB02
Battery type	LFP / LiFePO4 (Lithium Iron Phosphate)
Battery designation	IFpP73/175/208[1P240S]E/-20+50/95
Rated battery cell capacity	3.2V / 280Ah
Rated battery current	140A
Battery pack capacity	43kWh
Rated battery energy	215kWh
Battery pack usage	5 pcs.
Rated battery voltage	768V
Battery voltage range	684V~852V
Continuous discharge/charge current rate	0.5C
Cycle life	8000 cycles
AC output data	
Rated output voltage	400V
Rated output voltage range	340V~460V
Rated output power	100kW
Maximum output current	159A
Rated output frequency	50Hz/60Hz ±2.5Hz
AC access mode	3L/N/PE
Power factor	>0.99 (1.0 lagging~1.0 leading)
On-grid and off-grid switching function	Yes
Photovoltaic data	
Maximum open circuit voltage	650V
Photovoltaic voltage	300V~650V
Maximum current	200A
Access channel	1
General data	
Ingress protection rating	IP67 (battery pack), IP54 (electrical compartment)
Protective class	Class I
Anti-corrosion protection	C4 (optional upgrade to C5)
Overvoltage category	III
Communication interface	RS485, CAN
Communication protocol	Modbus-RTU, CAN
Electrical supply system	TN-S
Cooling method	Battery pack: liquid coolant cooling (design pressure: 350kPa) and oil immersion (explosion-proof system); PCS: air cooling
Fire fighting system	Fire detector; Sound and light alarm; Active/passive activating aerosol fire extinguisher
Operating temperature	-20°C~50°C
Operating relative humidity	0%~95% (no condensation)
Maximum operating altitude	2000 m
Weight	2450 kg
Dimensions (WxDxH)	1370x1320x2100 mm
Certifications and standards	
CE	EN 62477-1, EN IEC 61000-6-1/2/3/4
Grid	CEI0-21:2022-03, CEI0-21:V1:2022-11, CEI0-21:V2:2024-01, CEI0-21:V2/EC:2024-03, CEI0-16:2022-03, CEI0-16:V1:2022-11, CEI0-16:V2:2023-05, CEI0-16:V3:2024-01, CEI0-16:V3/EC:2024-03
Transportation	UN38.3, MSDS, Reach Annex 17, RoHS

* An additional Static Transfer Switch (STS) cabinet is required when the system is in off-grid mode.

