



DYQUE
Green Energy Solution

Let the world enjoy green energy

DYQUE focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. With global sales and services, we aim to become our customers' most trusted partner on their journey to a more sustainable future.

www.Dyque.com

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Commercial & Industrial Energy Storage System

DC-100K215-CG1



Data Center



Industrial Parks



Distribution Grid Expansion



Commercial Buildings



PV, Storage & Charging Integration



The commercial & industrial (C&I) energy storage system of DYQUE integrates batteries, battery management system (BMS), energy management system (EMS), modular power conversion system (PCS), PV Maximum Power Point Tracker (MPPT), High-voltage Box, Static transfer switch (STS), and fire protection system into the cabinet. The system's capacity is up to 215 kWh and the power is up to 100 kW. The modular design facilitates flexible capacity expansion and adapts to various scenarios. The system has many functions such as solar energy generation, voltage regulation, three-phase imbalance control, and harmonic control to improve power quality. It also enables load tracking, back-up power supplying and peak shaving, which can reduce enterprises' energy consumption costs, increase their green energy consumption, and keep their systems running safely and stably.

Commercial & Industrial Energy Storage System

DC-100K215-CG1



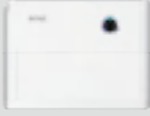








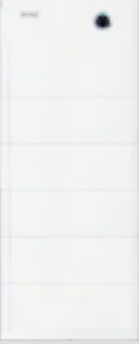

- Quick power response, and supporting various operation modes, such as virtual power plant, and on-grid/off-grid operation
- Integrated photovoltaic power generation system
- All-in-one design, greatly reducing the time and cost of transportation and on-site installation
- Local data acquisition, intelligent monitoring, and remote operation & maintenance (O&M)
- Standardized interfaces, allowing multi-system parallel connection and easy expansion
- Six-layered security protection design, and multi-information fusion
- Intelligent equalization algorithm + deeply optimized SOX algorithm, improving the available system capacity by > 3%
- PACK-level SOX auxiliary calculation, improving the algorithm accuracy by 2%
- Intelligent installation and O&M, allowing node self-adaption, fault indication, etc., and reducing the cost of on-site installation and O&M by 70%
- Local/remote upgrade (broadcasting program upgrade allowed), with efficiency 90% higher than that of traditional
- point-to-point upgrade

Technical Specifications

Model	DC-100K215-CG1
Efficiency	
Max. efficiency of converter	99%
DC Input (from PV)	
Max. PV power	100KW
Max. DC input voltage	900V
AC Output	
Rated output power	100kW
Max. output power	110kW
Nominal output voltage	380Vac
Nominal output frequency	50/60Hz
Transfer time	10ms
Battery	
Capacity	215kWh
Battery type	LiFePO4
Battery cycle life	>5000
Charge-discharge ratio	≤0.5C
Battery pack configuration	1P48S/43 kWh
Battery system configuration	1P240S
Battery module voltage range	672 ~ 864 V
General Data	
Dimensions (W / H / D)	1414*1450*2180 mm
Weight	2700 kg
Storage temperature range	-30 ~ 60 °C
Operating temperature range	-20 ~ 55 °C
Relative humidity range	0 ~ 95% (non-condensing)
Max. operating altitude	2000m
Fire protection system	Aerosol + perfluorohexanone
Cooling	Liquid-cooling
System ingress protection rating	IP54
Communication	CAN/RS485/Ethernet



DYQUE Green Energy Solution

Area	Solution	Appliances
Home	Apartment 5KW (SP) + 8kWh + Gateway (SP)  	Always-On application Lights & Wifi TV / Laptop x1 Fridge / Freezer x 2 Clothes / Dishwasher x1
	Townhouse 5KW (SP) + 13kWh + Gateway (SP)  	Instant application (2 at a time) Coffee/Bread machine/ Microwave/Kettle
	Complex house 10KW (TP) + 24kWh + Gateway (TP)  	Always-On application Lights & Wifi TV / Laptop x 2 Fridge / Freezer x 2 Clothes / Dishwasher x 2 Aircon x1 Instant application (2 at a time) Coffee/Bread machine/ Microwave/Kettle
C&I	House/Store 25KW (TP) + 48kWh + Gateway (TP)  	Always-On application Lights & Wifi TV / Laptop x 3 Fridge / Freezer x 3 Clothes / Dishwasher x 2 Aircon x2 Instant application (3 at a time) Coffee/Bread machine/ Microwave/Kettle
	Hotel (25KW (TP) + 48kWh) * 2 + Gateway (TP) (2 Sets Parallel Mode)   	Always-On application Lights & Wifi TV / Laptop x 5-10 Fridge / Freezer x 5-10 Clothes / Dishwasher x 3 Aircon x 5-10 Pool pump x1 Coffee/Bread machine/ Microwave/Kettle