20-FT 4.47MWH/5MWH CONTAINERIZED C&I ESS

YJC-PowerCube-20G-4.47/-20G-5.0



HIGH ENERGY DENSITY, COMPACT DESIGN

Delivers 4.472 MWh (3.2V 280Ah) or 5.016 MWh (3.2V 314Ah) in a standard 20-ft container, providing large-scale storage with a minimal footprint and fast deployment.



SUPERIOR SAFETY PROTECTION

Pack-level fire protection, early thermal runaway warning, targeted fire suppression, Grade 3 short-circuit defense, and Grade 4 active safety mechanisms ensure all-round system safety.



LONG LIFESPAN & RELIABILITY

In-house developed cells, BMS, and EMS with a designed service life of 15+ years.

Cell temperature difference <2.5°C and system temperature rise <5°C, extending lifespan by 20%.



PEAK SHAVING & ENERGY ARBITRAGE

Supports peak shaving, valley filling, energy trading, and frequency regulation, delivering both economic benefits and grid stability.



WIDE COMPATIBILITY & EASY INTEGRATION

Compatible with multiple fire protection standards and adaptable to diverse electrical system designs, ensuring flexible application across industries.



HIGH SOC ACCURACY

SOC error <1% under standard conditions, enabling precise charge/discharge management, better utilization, and responsive grid services.



INTELLIGENT OPERATION & REMOTE MANAGEMENT

Real-time cloud monitoring, remote control, smart dispatching, energy tracking, predictive maintenance, and early fault warnings for safe, efficient operation.





Product Model	YJC-PowerCube-20G-4.47
Battery Parameters	
System Capacity	4472.4 kWh
Rated Voltage	1331.2 V
Single Cluster Capacity	372.7 kWh
Number of Battery Clusters	12
Charge/Discharge Rate	0.5P
Cooling Method	Liquid Cooling
Fire Suppression System	Perfluorooctane / Hexafluoropropane
General Parameters	
Dimensions (W×D×H)	6058 × 2438 × 2896 mm
Weight	41 t
Operating Temperature	-30 ~ 55 °C
Communication Interface	RS485, CAN, Ethernet

Product ModelYJC-PowerCube-20G-5.0Battery ParametersSystem Capacity5016 kWhRated Voltage1331.2 VSingle Cluster Capacity418 kWhNumber of Battery ClustersClusters 12Charge/Discharge Rate5.5Cooling MethodLiquid CoolingFire Suppression SystemPerfluoroctane / HexafluoropropaneGeneral ParametersPerfluoroctane / HexafluoropropaneWeight42 tOperating TemperatureRS485, CAN, EthernetCommunication InterfaceRS485, CAN, Ethernet		
System Capacity 5016 kWh Rated Voltage 1331.2 V Single Cluster Capacity 418 kWh Number of Battery Clusters Clusters 12 Charge/Discharge Rate 0.5P Cooling Method Liquid Cooling Fire Suppression System Perfluorooctane / Hexafluoropropane General Parameters Dimensions (WxDxH) 6058 × 2438 × 2896 mm Weight 42 t Operating Temperature -30 ~ 55 °C	Product Model	YJC-PowerCube-20G-5.0
Rated Voltage 1331.2 V Single Cluster Capacity 418 kWh Number of Battery Clusters Clusters 12 Charge/Discharge Rate 0.5P Cooling Method Liquid Cooling Fire Suppression System Perfluorooctane / Hexafluoropropane General Parameters Dimensions (WxDxH) 6058 x 2438 x 2896 mm Weight 42 t Operating Temperature -30 ~ 55 °C	Battery Parameters	
Single Cluster Capacity418 kWhNumber of Battery ClustersClusters 12Charge/Discharge Rate0.5PCooling MethodLiquid CoolingFire Suppression SystemPerfluorooctane / HexafluoropropaneGeneral Parameters6058 × 2438 × 2896 mmWeight42 tOperating Temperature-30 ~ 55 °C	System Capacity	5016 kWh
Number of Battery Clusters 12 Charge/Discharge Rate 0.5P Cooling Method Liquid Cooling Fire Suppression System Perfluorooctane / Hexafluoropropane General Parameters Dimensions (W×D×H) 6058 × 2438 × 2896 mm Weight 42 t Operating Temperature -30 ~ 55 °C	Rated Voltage	1331.2 V
Charge/Discharge Rate 0.5P Cooling Method Liquid Cooling Fire Suppression System Perfluorooctane / Hexafluoropropane General Parameters Dimensions (W×D×H) 6058 × 2438 × 2896 mm Weight 42 t Operating Temperature -30 ~ 55 °C	Single Cluster Capacity	418 kWh
Cooling Method Fire Suppression System General Parameters Dimensions (W×D×H) Weight Operating Temperature Liquid Cooling Perfluorooctane / Hexafluoropropane 6058 × 2438 × 2896 mm 42 t	Number of Battery Clusters	Clusters 12
Fire Suppression System General Parameters Dimensions (W×D×H) Weight Operating Temperature Perfluorooctane / Hexafluoropropane 6058 × 2438 × 2896 mm 42 t	Charge/Discharge Rate	0.5P
General ParametersDimensions (W×D×H)6058 × 2438 × 2896 mmWeight42 tOperating Temperature-30 ~ 55 °C	Cooling Method	Liquid Cooling
Dimensions (W×D×H) 6058 × 2438 × 2896 mm Weight 42 t Operating Temperature -30 ~ 55 °C	Fire Suppression System	Perfluorooctane / Hexafluoropropane
Weight 42 t Operating Temperature -30 ~ 55 °C	General Parameters	
Operating Temperature -30 ~ 55 °C	Dimensions (W×D×H)	6058 × 2438 × 2896 mm
	Weight	42 t
Communication Interface RS485, CAN, Ethernet	Operating Temperature	-30 ~ 55 °C
	Communication Interface	RS485, CAN, Ethernet