



CubeArk

122KWH HV Energy Storage System Commercial & Industrial BESS

○ High Efficiency 97.6%

With cooling system ensures higher efficiency and longer battery cycle life

○ Various Application Solutions

Variety of applications are supported such as peak-shift, peak-cut, frequency regulation, etc.

○ Easy Installation

Highly integrated Ess for easy transportation and O&M
All pre-assembled, no battery module handling on site

○ Safety and Reliable

Multi level battery protection layers formed by discreet standalone systems offer impeccable safety

Battery System Side									
Model	HV-614.4V 100AH*2P								
Rated voltage	614.4V								
Rated capacity	200ah (0.2C)								
Charge voltage	681.6VDC (adjustable)								
Discharge voltage	537.6VDC								
Rated working current	100A (0.5C)								
Max.working current	160A (0.8C)								
Rated power	61KW								
Max.output power	100KW								
Recommended DoD	90%								
Range of working temp.	-10~50 °C								
Working humidity range	5-85%RH								
Communication method	two way CAN2.0/RS485								
Working indicator	Blue:Power; Green:Running; Red:Alarm protection								
Cycle life	25±2°C, 0.2C/0.2C, EOL70%≥6000								
Display method	10inch(LCD)/PC Software								
Protective function	<table border="0"> <tr> <td>Voltage protection</td> <td>Over charge and over discharge</td> </tr> <tr> <td>Temperature protection</td> <td>Over temperature range protection</td> </tr> <tr> <td>Current/Leakage protection</td> <td>YES</td> </tr> <tr> <td>Dielectric withstand voltage</td> <td>1000VDC(not less than 1 GΩ)</td> </tr> </table>	Voltage protection	Over charge and over discharge	Temperature protection	Over temperature range protection	Current/Leakage protection	YES	Dielectric withstand voltage	1000VDC(not less than 1 GΩ)
Voltage protection	Over charge and over discharge								
Temperature protection	Over temperature range protection								
Current/Leakage protection	YES								
Dielectric withstand voltage	1000VDC(not less than 1 GΩ)								
Dimension	2000*2500*2500MM								
Protection level	IP65								
Product packaging	Container								
PCS DC Input Side									
Voltage	150-800VDC(614.4V)								
Max.charge power	50+50A								
Max.discharge current									
PCS DC Input Side									
Max.photovoltaic power	65000W								
Max.photovoltaic voltage	100V								
Starting voltage	150V								
MPPT range	200-850VDC								
Full load DC voltage	450-850VDC								
Rated DC input	600V								
PV input current	36A+36A+36A+36A								
PV input channels	4 ways								
Communication method	two way CAN2.0/RS485								
PCS-AC output side									
Rated AC power	50KW								
Max.output power	55KW								
Output rated current	75.8A								
Max.output current	83.3A								
Off-grid peak power	1.5 times the rated power, 10S								
Generator input/smart load/AC coupling current(A)	75.8A / 150A / 75.8A								
Power factor	0.8lead/0.8lag								
Output Frequency/No lt age	50/60Hz; 3L/N/PE220/380, 230/400Vac								
AC Phase	Three Phase								
Highest efficiency	97.6%								
Rated efficiency	97%								
MPPT efficiency	99.9%								
Protective function	PV input lightning protection,anti-is landing protection,py string input reverse polarity protection, insulation resistance detection,residual current monitoring device,output over current protection, output short circuit protection,surge protection								
Output voltage protection	DC Type II / AC Type III								
Grid certification	CE I0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99,G98, VDE0126-1-1, RD1699, C10-11								
Safety certificate	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2								
Working temp.range	-40~60°C, >45 C Power down								
Communication method	RS485/CAN								