

Outdoor Communication Energy Cabinet With Wind Turbine

Model: HJ-SG-D03 Power: AC220V, -24V, and -12V

Summary

Highjoule HJ-SG-D03 series outdoor communication energy cabinet is designed for remote communication base stations and industrial sites to meet the energy and communication needs of the sites.



Outdoor Communication Energy Cabinet With Wind Turbine (HJ-SG-D03)

Product Features

Maximized Energy Efficiency

Optimizes the use of energy in the following order—solar/wind, battery, grid power, and diesel generator—maximizing green energy utilization

Integration of Safe, Efficient Clean Energy

Introduces solar and wind power with AI management, achieving low-carbon, energy-saving, and stable operation for communication base stations

Customizable Solutions

Provides different base station energy system solutions tailored to the user's specific requirements

Voltage Output

DC-48V, optional (AC220V, -24V, and -12V)

Technical Parameters

System specifications

Product specification	Physical dimension	900mm(W)×900mm(D)×2200mm(H); IP55 protection
	Installation mode	Fall to the ground
	Cooling solution	Intelligent temperature control (heat exchange/air conditioning, energy-saving automatic switching refrigeration)
AC input	AC input voltage	Single-phase/three-phase 380VAC input (two-way input interlocking)
	Rectifier module	50A, fully equipped with 400A in the same slot as the photovoltaic module
Photovoltaic input	Photovoltaic module capacity	550Wp*8 blocks;=4.4kw
	Photovoltaic module	50A(3000W)*2
Wind power	Wind power	600W~2000W
	Fan control module	2KW
Generator	Diesel generator set	Silent type, fully automatic, AC 380V, 8KW~20KW (optional)

Energy storage backup	Lithium iron phosphate battery	100AH, 51.2V; fully equipped with 4 groups, energy storage 20KWH
Output characteristics	DC output voltage	432VDC~58VDC (default 535VDC)
	Output configuration	Battery: 4*125A; DC: 63A*4, 32A*4, 16A*6 AC: input 32A*3, lightning protection class C; socket: 2 channels;
Monitoring unit system	Signal input	1-way analog input (battery temperature); 4-way digital dry contact input
	Alarm output	4 dry contacts
	Communication Interface	RS485
	Storage	Up to 1000 historical alarm records
	Sensor	Temperature and humidity, smog, access control, water immersion
Environment	Operating temperature	-20~+75°C (-40°C can be started)
	Storage temperature	-40°C~+75°C
	Working humidity	5%~95%(no condensation)

	Altitude	≤4000m (1800m~4000m, every time the altitude rises by 200m, the temperature will decrease by 1°C.)
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Application

Suitable for off-grid locations and regions with high electricity costs where station construction is needed. Can be used in both grid-connected and off-grid scenarios, particularly in areas where grid electricity costs are higher than diesel generator costs.

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