IQ-SERIES

Containerized ESS

500KW~1000KW
Power

IP54
Protection Level

1MWH~2.4MWH
Energy

6000 TIMES
Cycle Life

The containerized ess which is self-developed by Huafon Energy Storage is made up of the system of battery, energy storage inverter PCS, fire fighting, temperature control, energy management, distribution, and auxiliary. The entire system is connected to our cloud platform, and the platform's digital operation and energy management system are used to increase revenue and optimize operation.

FM

UPS Function

Peak Shaving and Valley Filling

Smoothing Voltage

Grid Support

Security Intelligence

IQ-SERIES

huafon ESS

Model	IQ500/1000	IQ630/2400	IQ1000/2000
Specs	500kW/1000kWh (20GP)	630kW/2400kWh (40GP)	1000kW/2000kWh (40GP)
DC Side			
Battery Type	LFP	LFP	LFP
Cell Capacity	280Ah	280Ah	280Ah
Battery Module Connection	1P16S	1P16S	1P16S
Battery Module Capacity	14.336kWh	14.336kWh	14.336kWh
Battery System Grouping Method	1P224S*5	1P224S*12	1P224S*10
Battery Module Qty.	70	168	140
DC Voltage Range	627.2V~806.4Vdc	627.2V~806.4Vdc	627.2V~806.4Vdc
System Capacity	1003kWh	2408kWh	2006kWh
C-rate	0.5C	0.5C	0.5C
AC Side			
Rated Power	500kW	630kW	1000kW
Rated Voltage	AC380V	AC380V	AC380V
Rated Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Maximum Discharge Power	500kW	630kW	1000kW
System Parameter			
Cooling	Air Conditioner		
Noise Level	<68dB (at 1 meter)		
Protection Class	IP54		
Altitude	3000m (>2000m derating)		
Temperature & Humidity Range	-30°C to 50°C / 0~95% (No Condensation)		
Overload Capacity	110%@10 min; 120%@1 min		
Communication Protocol	Modbus RTU / Modbus TCP		
Fire Extinguishing	HFC-227ea		
Cycle Life	≥6000 Times		
Warranty Period	5 Years		
Size (W*H*D)	6058*2896*2640mm	12192*2896*2640mm	12192*2896*2640mm
System Weight	17t	35t	30t