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# NEW ENERGY

## Battery Storage

PRODUCT  
MANUAL

Green Energy  
Powers The Future

## 20-foot Air-cooled cabinet

### Feature and Application:

Battery Modular design, distributed cooling design, better temperature control.  
Configuration of flammable gas detection, early warning system safety status.  
System running data analysis, intelligent terminal display

### Main parameters:

Battery rated capacity: 1MWh  
Battery voltage range: 627.2~806.4V  
Battery temperature control mode: Intelligent air-cooled  
Fire fighting system (battery container): Aerosol, flammable gas detection + exhaust, water fire (optional)



### Battery parameters

Battery type	3.2V/280Ah
System battery configuration	1P224S*5
Battery rated capacity	1MWh
Battery voltage range	627.2~806.4V
BMS communication interface	Ethernet
BMS communication protocol	Modbus TCPbus

### AC side parameters

AC side power rating	500kVA
AC current distortion rate	<3% (Rated power)
DC component	<0.5%
AC side rated voltage	380V
Voltage range of power grid	342~418V
Power factor	>0.99 (Rated power)
Reactive power adjustable range	-105%~105%
Rated grid frequency	50Hz
Power Grid frequency range	45~55Hz
Isolation Mode	Transformer isolation

### System parameters

Battery cabinet size (L*W*H)	L6058*W2591*H2438mm
Weight of container	20T
Protection level	IP54
Operating temperature range	(-30°C~50°C) (>45°CReduction)
Operating humidity range	0~95% (No condensation)
Battery temperature control mode	Intelligent air-cooled
Cooling mode of converter	Temperature control forced air cooling
Fire fighting system (battery container)	Aerosol, flammable gas detection + exhaust, water fire (optional)
System communication interface	RS485、Ethernet、CAN
External system communication protocol	Modbus TCP、Modbus RTU、CAN2.0

# 20-foot Liquid-cooled cabinet

## Feature and Application:

Intelligent liquid-cooled temperature control, reduce system auxiliary power consumption.  
Configure the local control and remote monitoring platform.  
System running data analysis, intelligent terminal display

## Main parameters:

Battery rated capacity: 1MWh  
Battery voltage range: 627.2~806.4V  
Battery temperature control mode: Liquid-cooled  
Fire fighting system (battery container): Aerosol, flammable gas detection + exhaust, water fire (optional)



## Battery parameters

Battery type	3.2V/280Ah
System battery configuration	10P384S
Battery rated capacity	3.44MWh
Battery voltage range	1075.2~1382.4V
BMS communication interface	Ethernet
BMS communication protocol	Modbus TCPbus

## AC side parameters

AC side power rating	500kVA
AC current distortion rate	< 3% (Rated power)
DC component	< 0.5%
AC side rated voltage	380V
Voltage range of power grid	342~418V
Power factor	> 0.99 (Rated power)
Reactive power adjustable range	-105%~105%
Rated grid frequency	50Hz
Power Grid frequency range	45~55Hz
Isolation Mode	Transformer isolation

## System parameters

Battery cabinet size (L*W*H)	L6058*W2438*H2896mm
Weight of container	30T
Protection level	IP54
Operating temperature range	(-30°C~50°C) (> 45°CReduction)
Operating humidity range	0~95% (No condensation)
Battery temperature control mode	Liquid-cooled
Cooling mode of converter	Temperature control forced air cooling
Fire fighting system (battery container)	Aerosol, flammable gas detection + exhaust, water fire (optional)
System communication interface	RS485、Ethernet、CAN
External system communication protocol	Modbus TCP、Modbus RTU、CAN2.0



## 40-foot Air-cooled cabinet

### Feature and Application:

This system is designed using a 40 feet container to facilitate subsequent power expansion  
Configure EMS energy management system  
Adopting air-cooled air conditioning temperature control

### Main Parameter:

System current: 3.46MWh  
Output power: 630kw  
Output voltage: AC380V/AC400V 3W+N+PE  
System DC voltage: DC774.4V  
System capacity: 4,480Ah  
Size:12192\*2438\*2591



Battery parameters	
Battery type	3.2V/302Ah
System battery configuration	9P384S
Battery rated capacity	3340KWh
Battery voltage range	1075.2~1382.4V
BMS communication interface	Ethernet
BMS communication protocol	Modbus TCPbus
AC side parameters	
AC side power rating	500kVA
AC current distortion rate	< 3% (Rated power)
DC component	< 0.5%
AC side rated voltage	380V
Voltage range of power grid	342~418V
Power factor	> 0.99 (Rated power)
Reactive power adjustable range	-105%~105%
Rated grid frequency	50Hz
Power Grid frequency range	45~55Hz
Isolation Mode	Transformer isolation
System parameters	
Converter dimensions (L*W*H)	L1600*H2096*W935mm
Container Dimensions (L*W*H)	L12192*W2438*H2591
Weight of container	32T
Protection level	IP54
Operating temperature range	(-30°C~50°C) (> 45°CReduction)
Operating humidity range	0~95% (No condensation)
Battery temperature control mode	Intelligent air-cooled
Cooling mode of converter	Temperature control forced air cooling
Fire fighting system (battery container)	Aerosol, flammable gas detection + exhaust, water fire (optional)
System communication interface	RS485、Ethernet、CAN
External system communication protocol	Modbus TCP、Modbus RTU、CAN2.0