

# YelonESS-233kWh

## Industrial and Commercial Energy Storage

Liquid Cooling Distributed Energy Storage System



**233kWh**

**More Powerful**

Using high-efficiency LiFePO<sub>4</sub> battery pack  
Capacity up to 233 KWh  
Larger battery capacity



**Liquid Cooling**

**Safer**

Liquid cooling technology  
Work easily at rated power in a 30°C-60°C environment  
Safer equipment operation



**Self-developed EMS**

**More Flexible**

Autonomous control charge and discharge  
Autonomous tracking of system power changes  
Choose the best operation strategy  
Realize the integrated operation of source, network, load and storage



**YCloud**

**Smarter**

24/7 real-time cloud big data platform intelligent monitoring  
Data analysis and real-time tracking of power load demand  
Realize ESS optimal control and output power reports



**Super Charging Technology of Self-developed BMS**

**Faster**

Self-starting, connected to the grid, charging and discharging automatically  
No manual operation required  
Support to be used as emergency power when grid is cut off



**Modular**

**More convenient**

Modular design  
Plug-and-play; can be installed in outdoor environment  
Enable the fast switching between on-grid and off-grid modes



Commercial Building



Industrial Park



Data Centre



EV Battery Changing Station



Profit from Electricity Price Differences



Improve Energy Available



Optimize Electricity Quality



Delay Infrastructure Expansion Needs



Grid Ancillary Services Revenue

## Product Name & Model

YelonESS-233kWh Liquid cooling distributed energy storage system

### Grid side (on/off-grid)

Rated grid voltage	AC380V (-15%~+10%)
Rated output frequency	50Hz/60Hz (±5Hz)
AC access method	Three-phase four-wire (with neutral line N)
Isolation Method	Grid connection without isolation
Maximum charge/discharge power	110Kw/AC(continuous), 120KW(1min), 130KW(1S)
Mode switching time	< 20ms

### Battery Terminal Parameters

Battery Type	Lithium-ion battery (LiFePO <sub>4</sub> )
Rated power	233kWh
Maximum charge/discharge power	DOD95%
Maximum charge/discharge current	151A (0.5P charge and discharge)
Rated charge/discharge power	110KW
Cycles	8000 (100% charge and discharge, attenuation to 70%, 25 °C)

### System Efficiency/Functionality/Safety

System maximum efficiency	≥90% (comprehensive actual operating efficiency)
Maximum Charging Efficiency	≥98%
Maximum Discharge Efficiency	≥98%
System main function	Anti-backflow protection, high and low voltage ride-through, on/off-grid work, island protection, load tracking, demand control, remote scheduling and OTA monitoring
System Security Protection	Overvoltage, under voltage, short circuit, overload, overcurrent, overtemperature, lightning protection, leakage, insulation detection, cabinet + PACK level immersive fire protection design, etc.

### General Technical Parameters

Size (W/D/H)	1400*1350*2200mm
Weight	≤2500kg
Working Altitude	3000m (100% AC output) working altitude
Cooling method	Liquid cooling (battery + PCS)
Protection Level	≥IP65