

UTILITY-SCALE ESS SOLUTION

DEYE WINTER WS SERIES



Integrated Technology

- LC, PCS, and battery integrated
- EMS for system management
- ATS for on/off-grid switching
- 1 MW PCS output
- System energy capacity: 2057 kWh
- System size and weight: 20ft, 25,000 kg



Performance

- 1.1x overload, 1.5x overload
- Max RTE: 88.5%
- System Operating Conditions :
-20 °C ~ 55 °C | IP54 | C4-M
- Supports 2 PCS & 2 MW off-grid



Advanced Safety

- 1-hour fire resistance
- Combustible gas detection, smoke evacuation, aerosol extinguishers, water sprinklers



Applications

- Support black start function
- Support off-grid operation & back up
- Support peak shaving
- Transformer capacity control

4 Level

Power Redundancy Design

88.5%

Max.RTE

8000Cycles

EOL 70%

10 Years

Warranty

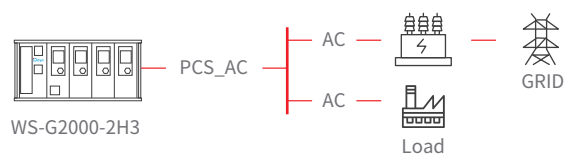
Model		WS-G2000-2H3
AC parameter		
Rated power		1000kW
Max. Apparent Power		1100kVA
Rated Voltage/Range		400V/0.85Un-1.1Un
Grid Connection Form		3L+N+PE
Frequency/Range		50Hz/45Hz-55Hz
Power Factor Adjustment Range		0.8 leading-0.8lagging
Total Current Harmonic Distortion (THDi)		<3% (of Rated power)
DC Injection Current		<0.5% In
Max.RTE		88.50%
Battery parameter		
Cell type		LFP
Battery configuration		256S1P*8
Battery energy		2057kWh
Battery voltage range		691.2~921.6Vdc
Other parameter		
Fire protect system		Gas fire protection+Water fire protection
cooling type		Small air cooling
Communication port		RJ45
Communication protocol		Modbus TCP, IEC104, IEC61850
Operating ambient		-20~55 °C
Humidity		0%~90%RH
Altitude		3000m
IP rating of enclosure		IP54
anti-corrosion level		C4-M
seismic grade		Moderate performance level (0.5g)
Dimension (W/D/H,mm)		20ft (HC)
Weight approximate (kg)		25000kg
Installation Location		Floor mount
Recommend storage temperature (°C)		0~35
Cycle Life		25±2°C,0.5P, EOL70%≥8000
Warranty		10years

Categorisation

Combination

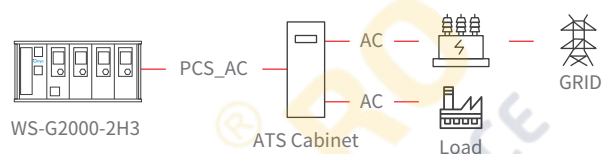
Application block diagram

Energy Storage Only

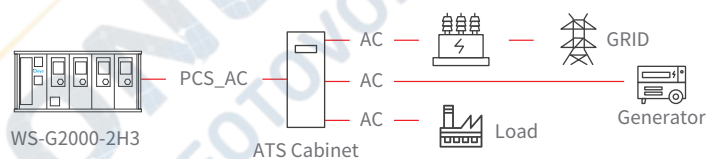


On-grid/On-grid、
Off-grid Switching

Energy Storage/Backup Power

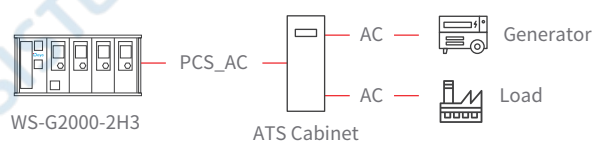


Energy Storage+Generator



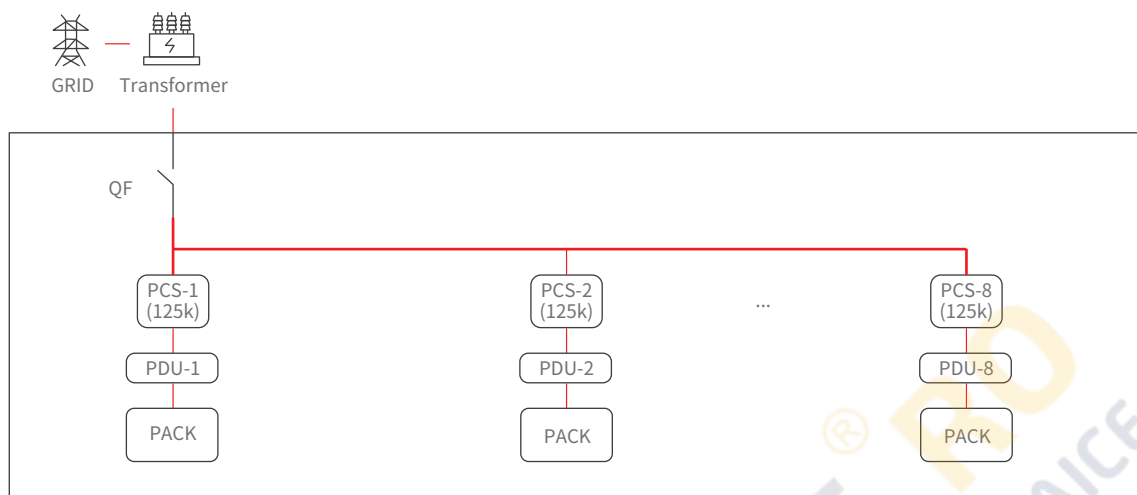
Off-grid

Energy Storage+Generator



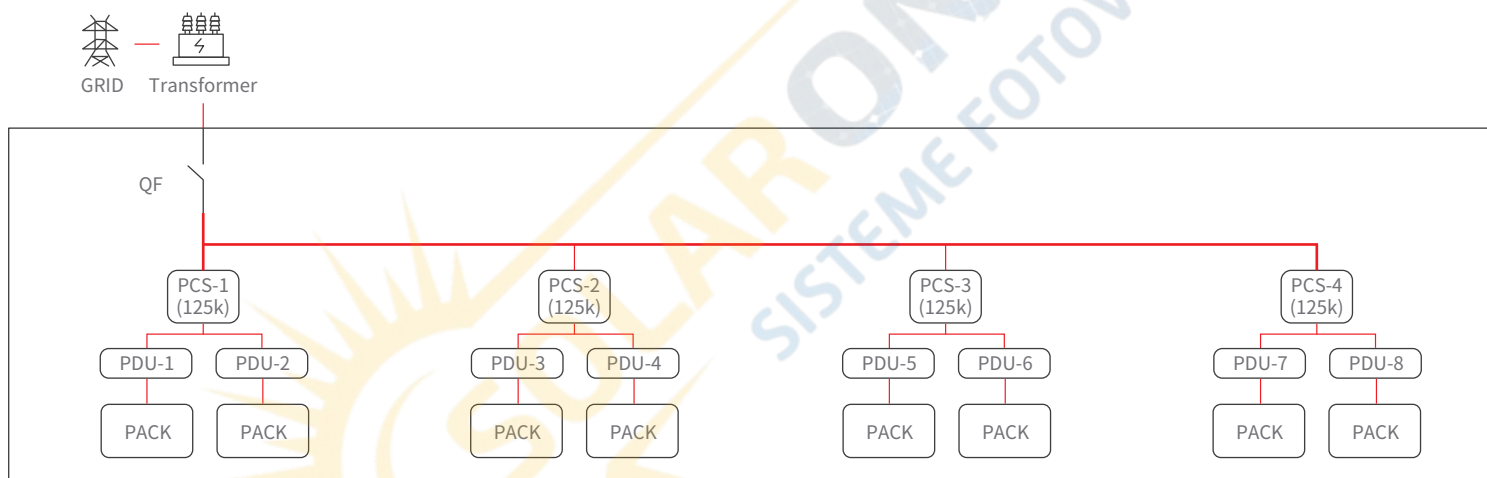
2-hour Energy Storage Solution

1MW/2MWh(2h)



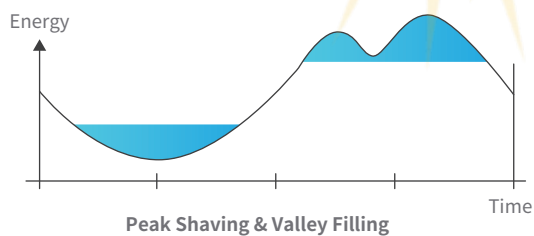
4-hour Energy Storage Solution

0.5MW/2MWh(4h)

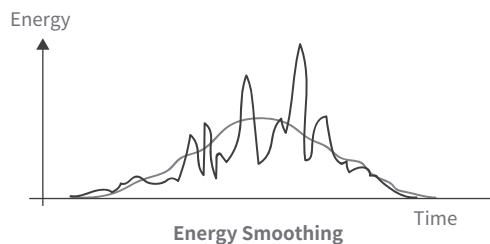


Application Scenarios

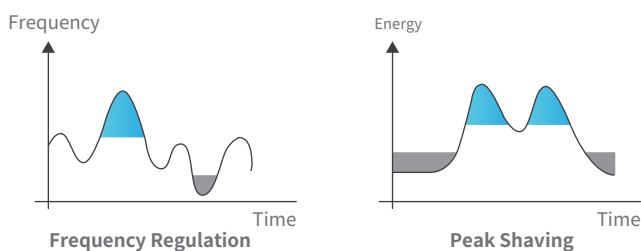
1. Applied in medium to large-scale C&I applications (Peak Shaving & Valley Filling)



2. Integrated with renewable energy storage systems to smooth power output



3. Used for Peak Shaving and Frequency Regulation on the power generation side



4. Participates in virtual power plants to provide ancillary power services (electricity trading)

