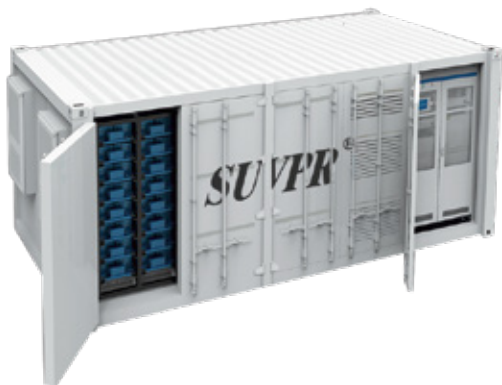


# 20ft container AC coupled ESS

## 150KW/250KW/500KW Energy Storage System



### Features

- Outdoor rated
- Built-in bi-directional storage Power Conversion System
- Grid-support&grid-forming
- Flexible energy
- Pre-engineered system

### Application Scenario



PV station



Wind power station



Frequency regulation

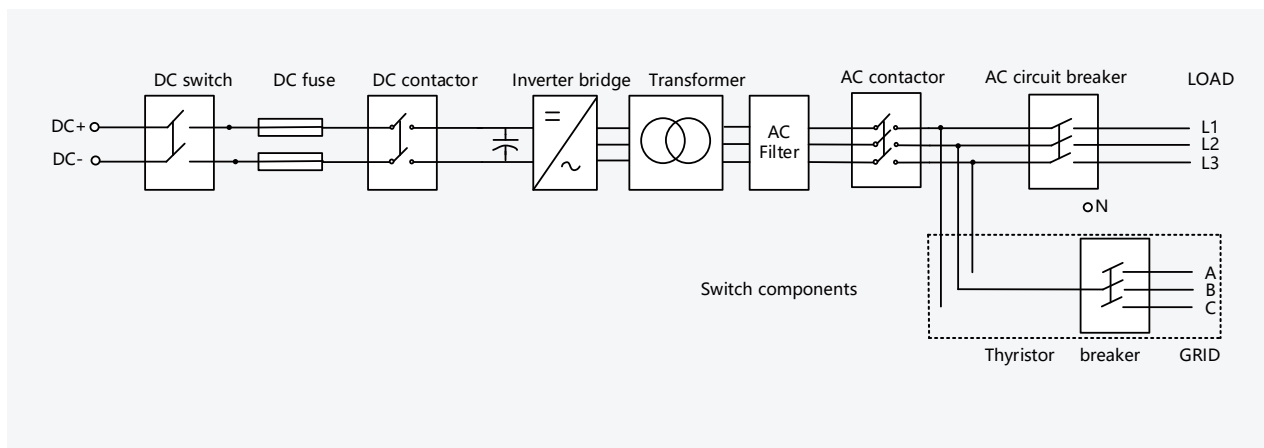


Grid side



Industrial and commercial

### Product Topology



Model	AESS150-xxx	AESS250-xxx	AESS500-xxx
<b>AC(on-grid)</b>			
Max. output power	165kVA	275kVA	550kVA
Rated power	150KW	250KW	500KW
Rated voltage	400V		
Voltage range	320V-460V		
Rated current	216A	361A	722A
Max. output current	240A	400A	800A
Rated frequency	50/60Hz		
Frequency range	45-55/55-65Hz		
THDI	<3%		
PF	1lagging-1leading		
AC connection	3W+N+PE		
<b>AC(off-grid)</b>			
Rated voltage	400V		
THDU	< 1% linear <5% non-linear		
Rated frequency	50/60Hz		
Overload capability	110%-continuous		
<b>Battery Requirement</b>			
Max Capacity	TBD by Battery System (up to 1000kwh)		
Chemical	Lithium ion based		
Battery Voltage Range	420V-850V/500V-850V		
Crate	TBD by Battery System (less than 1C) 1C Discharging for 15min determined by Battery System		
<b>Physical</b>			
Cooling	Forced air cooling for power electronics. Air conditioned for battery system with heater and dehumidifier, 5kW *1 or 2		
Noise	70dB		
Enclosure	NEMA 3R		
Max elevation	3000m/10000 feet (> 2000m/6500 feet derating)		
Operating ambient temperature	-20°C to 50°C(De-rating over 45°C)		
Humidity	0~95%(No condensing)		
Aux power	220 or 120v single phase built-in, 5kW*2transformer		
Size (WxHxD)	6058×2591×2438mm / 20*8.6*8 ft		
Weight	TBD		
<b>Fire system</b>			
Delays	Configurable		
Manual release	Supported		
Voltage	230/115V AC		
Back up battery	Two 12V 7Ah lead acid in series		
Sensors	Smoke detector and heat detector		
Alarm	Yes		
<b>Communication</b>			
Display	Touch screen LCD		
BMS interface	RS485/CAN		
Device interface	RS485, TCP/IP		
Certifi cates	CE、TUV		