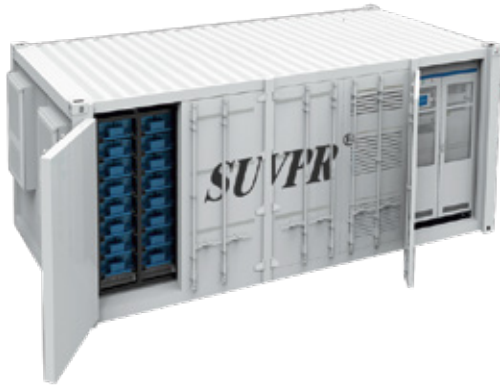


# 40ft container AC coupled ESS

## 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

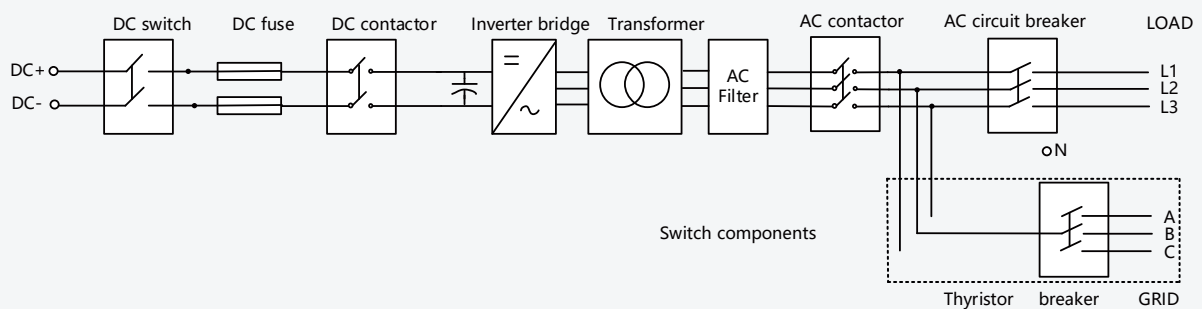


Grid side



Industrial and commercial

### Product Topology



Model	AESS500-xxx
<b>AC(on-grid)</b>	
Max. output power	550kVA
Rated power	500KW
Rated voltage	400V
Voltage range	320V-460V
Rated current	722A
Max. output current	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	500V-850V
Max charging/discharging current	1128A
Crate	TBD by Battery System (less than 1C)
<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
Certificates	CE, TUV