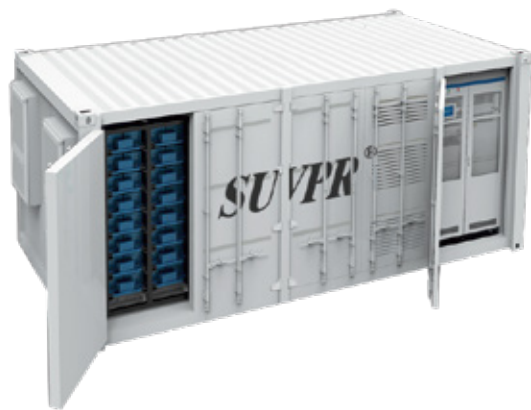


# 40ft container DC coupled ESS

500KW micro hybrid



## Features

- Outdoor rated
- Built-in bi-directional PV+Storage Power Conversion System(with optional built-in smart transfer switch)
- Grid-support&grid-forming & auto-switch
- Flexible energy
- Pre-engineered system

## Application Scenario



PV station



Wind power station



Frequency regulation

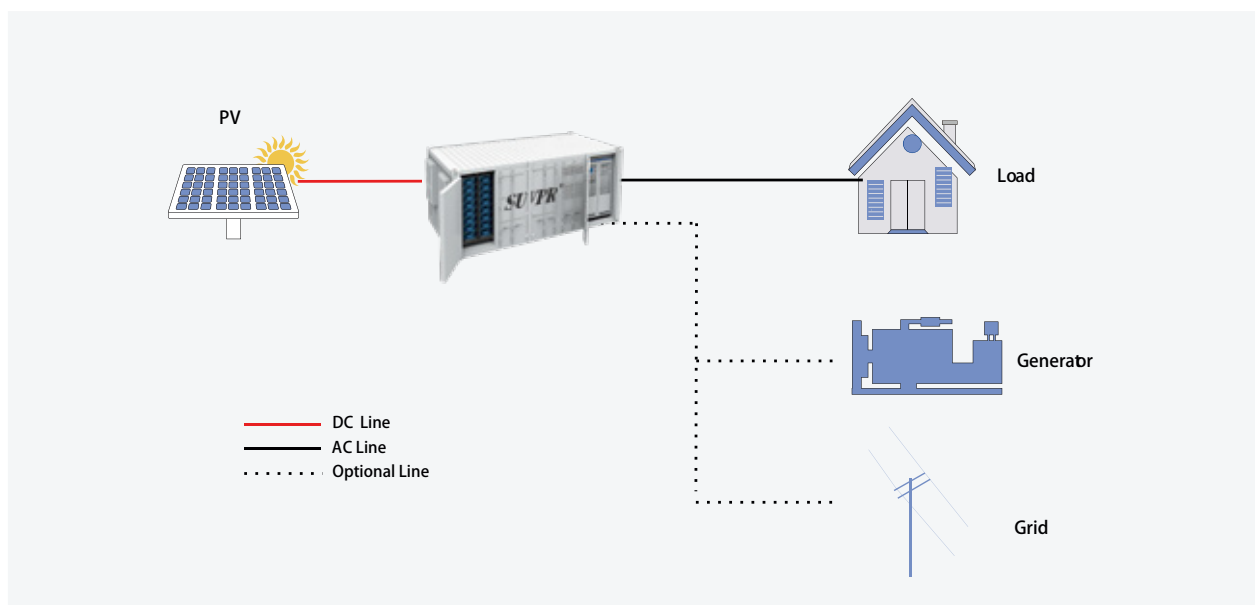


Grid side



Industrial and commercial

## Product Topology



Model	DESS500-xxx	
<b>AC(grid-connected)</b>		
Apparent power	550kV	
Rated power	500kW	
Rated voltage	400V	
Rated current	722A	
Voltage range	320V-460V	
Rated frequency	50/60Hz	
Frequency range	45-55/55-65Hz	
THDI	<3%	
PF	0.8lagging-0.8leading	
AC connection	3W+N+PE	
Transformer	Yes	
<b>AC(off-grid)</b>		
Apparent power	550kVA	
Rated power	500kW	
Rated voltage		
Rated current	720A	
THDU	≤ 2% linear	
Rated frequency	50/60Hz	
Overload capability	110%-10min120%-1min	
<b>PV</b>		
Max. PV open-circuit voltage	1000VDC	
MAX PV power	600/660/720KW	
PV mppt voltage range	200V-850V	
MPPT number	10/11/12	
<b>Compatible Battery System</b>		
Max Capacity	TBD by Battery System (up to 1000kwh)	
Chemical	Lithium ion based	
Battery Voltage Range	500V-850V	
<b>Physical</b>		
Cooling	Forced air cooling for power electronics. Air conditioned for battery system with heater and dehumidifier, 5kW *2 or 10kW*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)	12192×2591×2438mm / 40*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	
Communication intertace	RS485/CAN/TCP/IP	