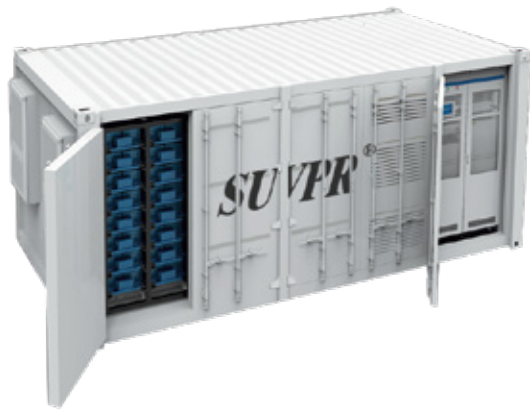


# 20ft container DC coupled ESS

## 150KW/250KW/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

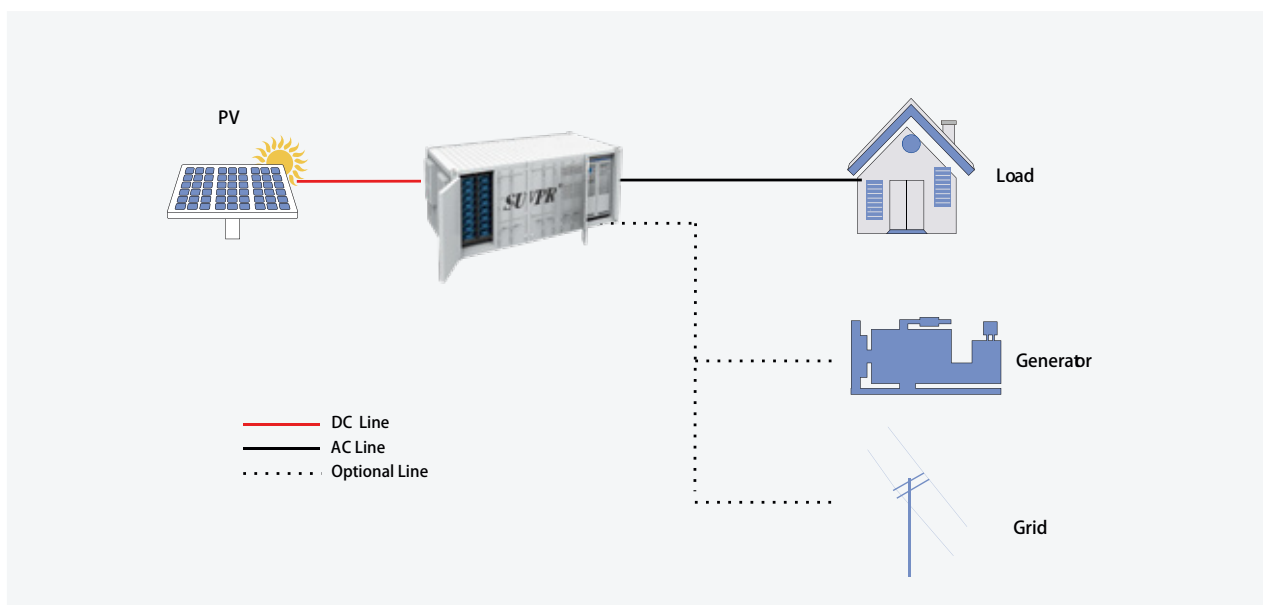


Grid side



Industrial and commercial

### Product Topology



Model	DESS150-xxx	DESS250-xxx	DESS500-xxx
<b>AC(grid-connected)</b>			
Apparent power	165kVA	275kVA	550kV
Rated power	150kW	250kW	500kW
Rated voltage	400V		
Rated current	217A	361A	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	165kVA	275kVA	550kVA
Rated power	150kW	250kW	500kW
Rated voltage	400V		
Rated current	217A	361A	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	120/180/240KW	300/360KW	600/660/720KW
PV mppt voltage range	200V-850V		
MPPT number	2/3/4	5/6	10/11/12
<b>Compatible Battery System</b>			
Max Capacity	TBD by Battery System (up to 1000kwh)		
Chemical	Lithium ion based		
Battery Voltage Range	420V-850V/ 500V-850V		
<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/10000feet (> 2000m/6500feet 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*8ft		
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		