

10ft container DC coupled ESS

30KW/50KW/100KW 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

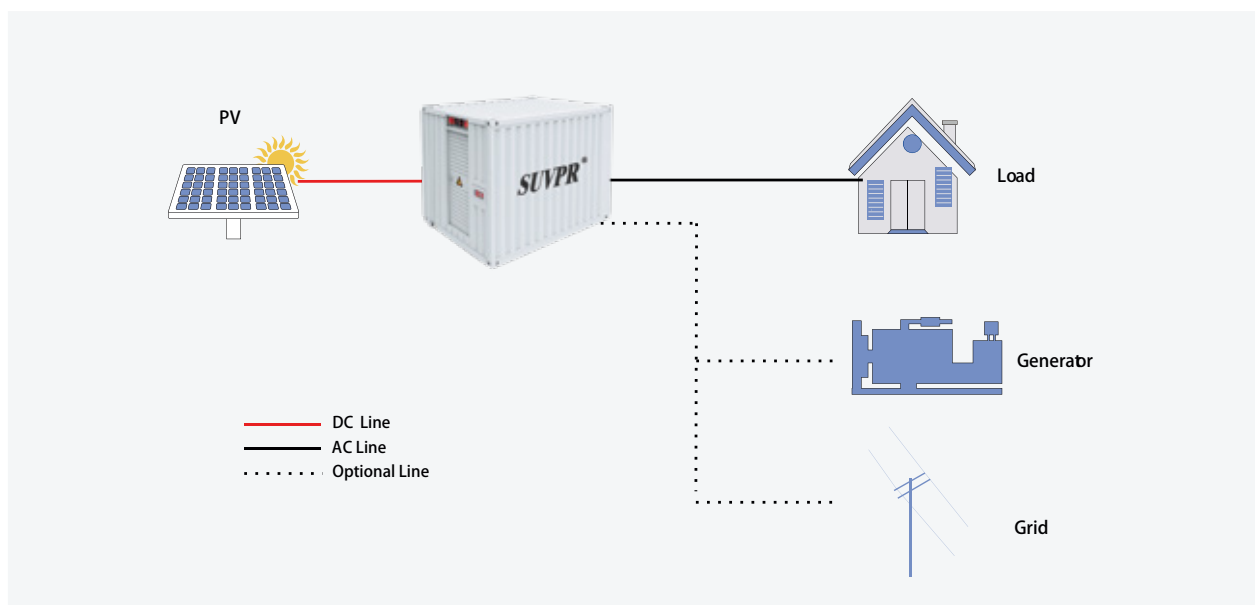


Grid side



Industrial and commercial

Product Topology



Model	DESS30-xxx	DESS50-xxx	DESS100-xxx
AC(grid-connected)			
Apparent power	33kVA	55kVA	110kV
Rated power	30kW	50kW	100kW
Rated voltage	400V		
Rated current	43A	72A	144A
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		
AC(off-grid)			
Apparent power	33kVA	55kVA	110kVA
Rated power	30kW	50kW	100kW
Rated voltage	400V		
Rated current	43A	72A	144A
THDU	≤ 2% linear		
Rated frequency	50/60Hz		
Overload capability	110%-10min120%-1min		
PV			
Max. PV open-circuit voltage	1000VDC		
MAX PV power	60/120KW	60/120KW	120/180/240KW
PV mppt voltage range	200V-850V		
MPPT number	1/2	1/2	2/3/4
Compatible Battery System			
Max Capacity	TBD by Battery System (up to 400kwh)		
Chemical	Lithium ion based		
Battery Voltage Range	150V-850Vdc/420V-850Vdc		
Physical			
Cooling	Forced air cooling for power electronics. Air conditioned for battery system with heater and dehumidifier, 3kW *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,3kW*2 transformer		
Size (WxHxD)	2991×2591×2438mm		
Weight	TBD		
Fire system			
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		
Communication			
Display	Touch screen LCD		
Communication intertace	RS485/CAN/TCP/IP		