



**Optimus all-in-one ESS**

## KEY FEATURES



### High Integration

Highly integrated ESS with outdoors cabinet design provides high protection class



### Safe and Reliable

Three level BMS structure for good cooperation and better operation performance



### Flexible

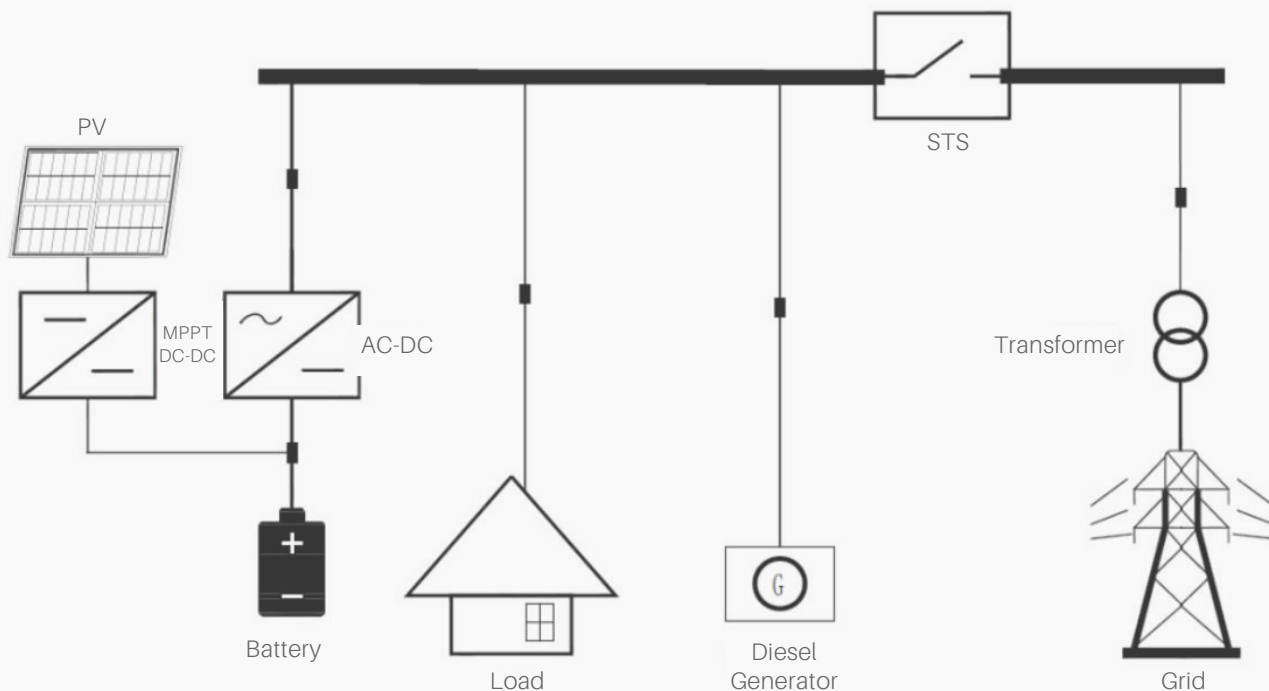
Supports system parallel connection and easy for expansion



### Pre-Engineered System

Easy for on-site installation and save the cost

## DIAGRAM



Outdoor Cabinet ESS for micro-grid island, hotel, fram... Applications

PCS Power optional power range: 30~200KW

Battery optional capacity range: 100~400KWh

Be suitable for 2~4 hours back up

## SPECIFICATION

System Optimus all-in-one ESS

### Battery Data

Battery Type Li-ion (LFP)

Nominal Capacity (kWh) 107

Battery Item Powercube-M2A-180/M3A00

Battery Module Qty. 19

DC Voltage Range(V) 661~820

Max. Operation Current (A) 148

Efficiency 95%

### PCS DC/AC Data On-grid Mode

Rated AC Power (KW ) 62.5 (expandable to 3\*62.5)

Rated AC Output Voltage(V) 400

Rated AC Output Frequency (Hz) 50/60

Max. AC Current(A) 95

Overload Capacity 110% 15mins; 120% 1mins

AC PF 1 ( leading ) ~1 ( lagging )

THDi  $\leq 3\%$

Isolation Type Non-isolation

Peak Efficiency 99%

### PCS DC/AC Data Off-grid Mode

Output voltage accuracy  $\leq 1\%$

AC PF  $> 0.7$

Output voltage distortion factor  $< 3\%$

### PV DC/DC Data Parameter

Rated Power(kW) 30 (expandable to 6\*30)

PV Input Voltage(Vdc) 100 - 1000 (full power from 300)

Max. current(A) 100

Max. Efficiency(%) 95.5%

## SPECIFICATION

System Type Optimus all-in-one ESS

General Data	
Dimension(W*H*D mm)	1200*2100*1000
Weight(Kg)	500
Working Temperature Range ( °C)	-30~60
Protection Class	IP65(battery room)+IP54(PCS room)
Altitude	3000
Humidity	0~95%
Fire Extinguishing	FM200
Air Conditioner	3kW
Anti-Corrosion	C3 (Optional upgrade to C5)
Authentication level	CE/IEC62619/UN38.3/UN3536
Operation Mode	
On/off-grid Switch	Optional STS module, switching time<20ms
EMS	10 inch LCD Touch Panel Self-Consumption; Micro-grid control; Demand response; Remote Control; Time of use;
Communication	
Communication Type:	Modbus TCP/IP