

Vega

C&I PV + BESS(Container solution) 315Ah

THESS-500-1128/2257

THESS-630-1451/2177


THESS-1000-2419


THESS-1250-2419





Product Overview


Vega is mainly aimed at the use of commercial energy storage application scenarios both domestic and overseas market. The system integrates PV and energy storage technology to improve the self-utilization rate of PV, reduce PV power waste and direct grid-connection of PV. Integrated with standard 20-foot and 40-foot containers, fire extinguishing and intelligent temperature control systems with high safety protection levels are suitable for various PV energy storage and charging scenarios.


 Integrated design, high protection level, convenient installation and transportation.

 Independent battery and electrical space design enhances the level of protection.


 The reliable integration of intelligent temperature control and fire management improves the fire safety protection of the system.

 Meet the new energy consumption, micro grid, peak regulation and other multiple application scenarios.

 Support the access of photovoltaic power generation to improve the rate of self-consumption.

 The whole container is certified by Classification Society to meet the overall transportation of the system.

 Supports 10kV power grid access.

 Charging pile interface reserved design.



Model	THESS-500-1128 THESS-500-2257	THESS-630-1451 THESS-630-2177	THESS-1000-2419	THESS-1250-2419
AC (Grid tied)				
Apparent Power	550kVA	693kVA	1100kVA	1300kVA
Rated Power	500kW	630kW	1000kW	1250kW
Rated Voltage	400V			
Rated Current	722A	909A	1444A	1804A
Voltage Range	360V ~ 440V			
Frequency	50/60Hz			
THDI	<3%			
Power Factor	- 0.9 leading ~ 0.9 lagging			
Wire Connection	3/N/PE or 3/PE			
AC input	550kVA	693kVA	1100kVA	1300kVA
AC (Off-grid)				
Apparent Power	550kVA	693kVA	1100kVA	1300kVA
Rated Power	500kW	630kW	1000kW	1250kW
Rated Voltage	400V			
Rated Current	722A	909A	1444A	1804A
THDU	≤2%			
Frequency	50/60Hz			
Overload Capability	110% for long-term; 120% for 1min			
DC (Battery and PV)				
Max. PV Open-circuit Voltage	1000V DC			
Rated PV Power	500kWp	600kWp	1000kWp	1000kWp
Max. PV Power	1.1~1.4 times rated			
PV Voltage Range	400V ~ 600V DC			
Max. PV Current	100A×10	100A×12	100A×20	100A×20
PV MPPT NO.	10	12	20	20
Battery Voltage Range	627V ~ 850V			
Available Battery Capacity	1128kWh 2257kWh	1451kWh 2177kWh	2419kWh	2419kWh
*Note: The battery capacity of each cluster battery module is: 225.79kWh or 241.92kWh, and the number of battery clusters varies between 4 and 10. The power, capacity and size of the product can be customized according to the specific needs of customers.				
Max. Charge Power	500kW	630kW	1000kW	1250kW
Max. Discharge Power	500kW	630kW	1000kW	1250kW
Max. Charge Current	797A	937A	1480A	1860A
Max. Discharge Current	797A	937A	1480A	1860A

Model	THESS-500-1128 THESS-500-2257	THESS-630-1451 THESS-630-2177	THESS-1000-2419	THESS-1250-2419
Basic Parameters				
Noise Level	<65dB(A)@1m			
IP protection level	IP54			
Fire protection	C6F120 fire extinguisher			
Operating Temperature	-25°C ~ +55°C			
Protection Function	Over /under voltage, Over current, Over/low temperature, SOC too high/low Low insulation impedance, Short circuit protection, etc			
Cooling	Forced air + Smart AC			
Relative Humidity	0 ~ 95%, non-condensing			
Max. Altitude	4000m (>2000m derating capacity)			
Dimensions (W×D×H)	6058×2438×2896mm		12192×2438×2896mm	
Weight	25T (20 feet)		38T (40 feet)	
Build-in Transformer	Optional			
Communication				
Display	Touch Screen			
Communication	RS485 / LAN			

Certifications

PCS Certifications:

CE、EN 61000-6-4:2019、EN 61000-6-2:2019、EN 62477-1:2012+A1:2017、EN62109-1:2010、EN 50549-1: 2019、C10/11.

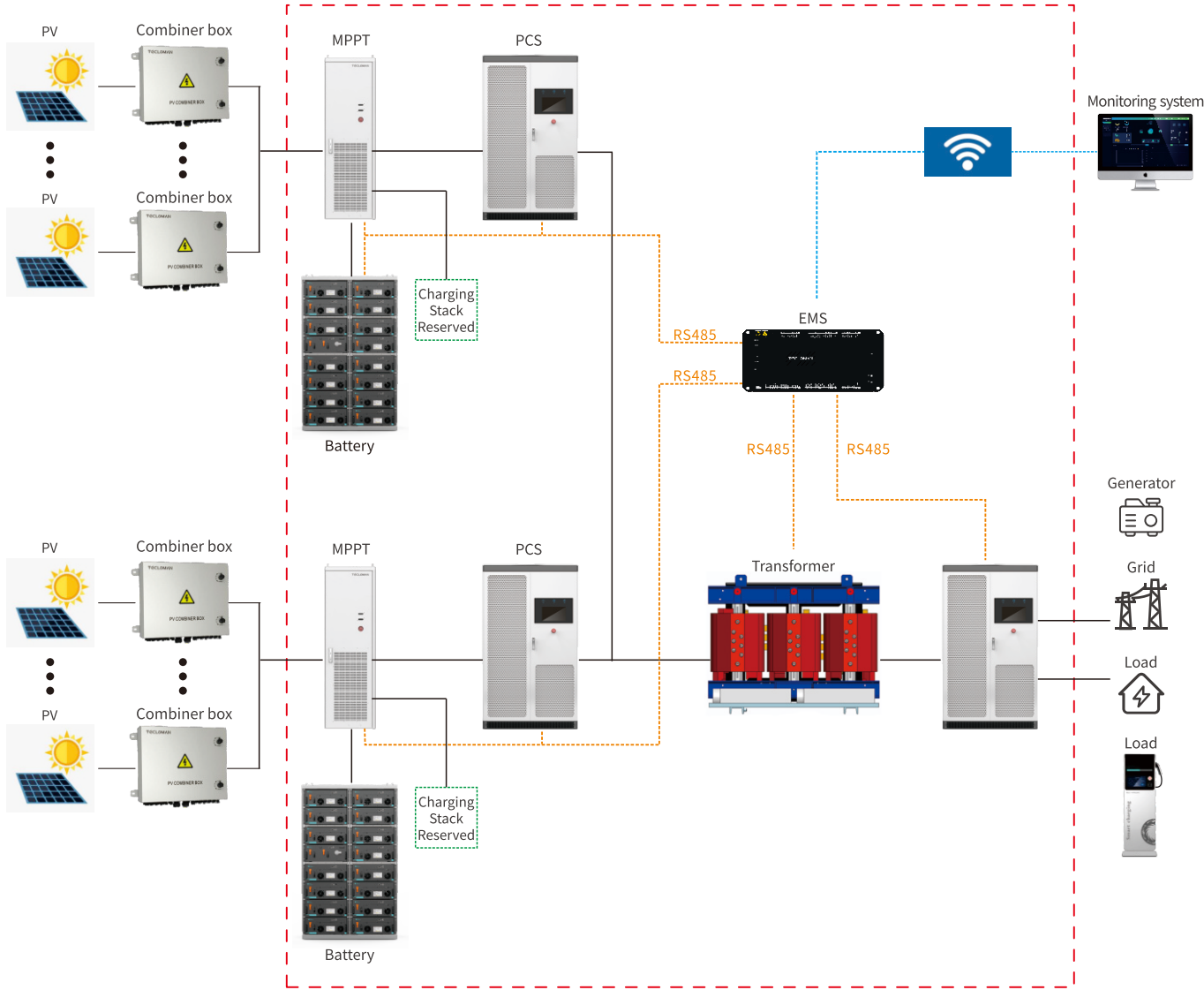
Module Certifications:

GB/T36276-2018、IEC61629、UN38.3、EMC.

Battery Certifications:

UL1973、UL9540A、IEC61629、UN38.3、GB/T36276-2018、ROHS、MSDS.

Product Principle



* Remarks:

- 1. This system adopts standard container integration, container size is standard 20 feet or 40 feet.
- 2. 40-foot standard containers are used for systems with battery power over 1290kWh, and 20-foot standard containers are used for systems with battery power below 1290kWh.
- 3. 20-foot container dimensions: W×D×H = 6058×2438×2896mm.
40-foot container dimensions: W×D×H = 12192×2438×2896mm.

