

Outdoor Cabinet ESS

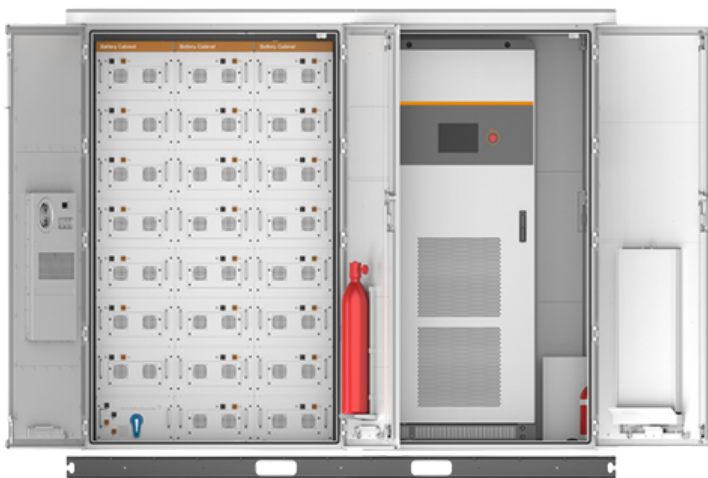
TW-ESSA30-100

- Small C&I, hospitals, conferences, weak power grid areas



Product Highlights:

- Support flexible expansion of PV capacity.
- Support simultaneous access to load, battery, grid, DG, and PV.
- Integrated EMS function, safe and stable.
- Built-in isolation transformer, with strong load adaptability.
- Support battery capacity and discharge time prediction.
- Supports peak shaving and dynamic transformer capacity expansion.



Specification

Item	TW-ESSA30	TW-ESSA50	TW-ESSA50S	TW-ESSA100
Rated power (kW)	30	50	50	100
Rated voltage (V)	400V			
Rated current (A)	43	72	72	144
Voltage range (V)	320V-460V			
Rated frequency	50/60Hz			
THDi(on-grid)	<3%			
THDi(off-grid)	≤ 1% linear; ≤ 5% non-linear			
Power factor	1 (0.8 leading ~ 0.8 lagging can be set)			
AC output	3W+N+PE			
Isolation transformer	100/400	200/400	200/400	270/400
On -grid off-grid switching	YES			
Max.PV input voltage (V)	1,000			
Max. PV power (kW)	60/120	60/120	60/120	120/180/240
MPPT operating voltage range (V)	250~850			
MPPT full load voltage range (V)	450~850			
Cell type	3.2V/120Ah/1C,LFP	3.2V/120Ah/1C,LFP	3.2V/280Ah/1C,LFP	3.2V/280Ah/1C,LFP
Nominal voltage(V)	460.8V, 1P144S	460.8V, 1P144S	358.4V, 1P112S	768V, 1P240S
Nominal energy (kWh)	55.296	55.296	100.352	215.04
Working voltage range (V)	403.2~511.2	403.2~511.2	319.2~397.6	672~850
Max. charge and discharge rate	1C@25°C	1C@25°C	0.5C@25°C	0.5C@25°C
Cycles	≥6,000	≥6,000	≥6,000	≥6,000
Dimensions W *D *H (mm)	1,770*1,510*2,270	1,770*1,510*2,270	1,770*1,510*2,270	2,450*1,550*2,400
Net weight (kg)	2,000	2,200	2,400	3,900
Operating temperature (°C)	0 ~ +45			
Relative humidity	0 ~95% (non-condensing)			
Ingress protection	IP54			
Noise emission (dB)	<75			
Operating altitude (m)	3,000			
Cooling	Intelligent air cooling			
Display	Touch LCD display+cloud platform			