

# C&I PV + Battery Energy Storage System

THESS-30/60/90/120/150



Modular design, can be configured according to requirements



Professional cloud platform monitoring and multi-dimensional after-sales service system



Independent battery, electrical space design enhancing the safety protection grade



Support photovoltaic power generation access improving the rate of self-generation and self-use



Available standardized expansion as desired, flexible, suitable for a variety of scenarios



Model	THESS-30-63	THESS-60-114	THESS-90-229	THESS-120-229	THESS-150-344
	THESS-30-114	THESS-60-129	THESS-90-258	THESS-120-258	THESS-150-387
	THESS-30-129	THESS-60-143	THESS-90-286	THESS-120-286	THESS-150-430
	THESS-30-143	THESS-60-157	THESS-90-315	THESS-120-315	THESS-150-473
	THESS-30-157				
AC (grid-connected)					
Apparent power	33kVA	66kVA	110kVA	132kVA	165kVA
Rated Power	30kW	60kW	90kW	120kW	150kW
Rated Voltage	400V				
Rated current	43A	87A	130A	173A	217A
Voltage range	360V~440V				
Rated Frequency	50/60Hz				
THDI	<3%				
Power facto	-0.8 (advance) ~ 0.8 (lag)				
AC system	3/N/PE				
AC input	33kVA	66kVA	100kVA	132kVA	165kVA
AC (off-grid)					
Apparent power	33kVA	66kVA	100kVA	132kVA	165kVA
Rated Power	30kW	60kW	90kW	120kW	150kW
Rated Voltage	400V				
Rated current	43A	87A	130A	173A	217A
THDU	≤2%				
Rated Frequency	50/60Hz				
Overload capability	110% overload (long-term), 120% overload (lmin)				
DC (battery and photovoltaic)					
Maximum PV Open Circuit Voltage	1000V DC				
Maximum PV power	30kWp	90kWp	120kWp	180kWp	210kWp
PV voltage range	480V-800V DC				
Maximum photovoltaic current	100A	250A	250A	250A×2	250A×2
Battery Voltage range	352v~600v				
Optional battery pack	63.36kWh	114.69kWh	229.38kWh	229.38kWh	344.06kWh
	114.69kWh	129.02kWh	258.05kWh	258.05kWh	387.07kWh
	129.02kWh	143.36kWh	286.72kWh	286.72kWh	430.08kWh
	143.36kWh	157.70kWh	315.39kWh	315.39kWh	473.09kWh
	157.70kWh		(Battery capacity offer three customizable specifications)		

Model	THESS-30	THESS-60	THESS-90	THESS-120	THESS-150
Maximum charge power	33kW	66kW	100kW	132kW	165kW
Maximum discharge power	33kW	66kW	100kW	132kW	165kW
Maximum charging current	100A	200A	300A	400A	500A
Maximum discharging current	100A	200A	300A	400A	500A

#### Basic Information

Noise	<65dB
Operating temperature	-25°C~+55°C
Cooling method	Forced air-cooling + intelligent air conditioner
Relative humidity	0-90%, non-condensing
Highest Altitude	4000 m (over 3000m, it will operate in derating)
Duration for switching between grid-connected and off-grid	Auto ≤ 10ms

#### Communications

HMI	Touch Screen
Communication Interface	Rs485/CAN/LAN

Note:

\* If you need to increase the battery capacity, please install the specified battery system to multiply it;

\*The system supports parallel operation of the same specification model, please consult the manufacturer for details.

#### Combination parallel

