

BSC Series

BSC-30KW-54KWh

Commercial energy storage system Standard Proposal

PV Power	Equipment	Remark
BSC-30KW-54KWh	PV	35.75KWp
	Inverter	30KW
	Batttery	54.27KWh

HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- The entire system has been fully tested and works perfectly
- Optimal configuration, high cost performance ratio
- Upport parallel connection for scalable capacity expansion.

PRODUCT TOPOLOGY



RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL					
PV Power	Equipment	Model	Unit	Quantity	Remark
BSC-30KW-54KWh-Eco 35750Wp/30KW/5427Wh	PV modules	BSM650G12-60HINH	pcs	55	11 pcs one string;total 5 strings
	Inverter	ATESS HP30-US-220	pcs	1	
	Batttery	BSM48106H	pcs	10	Cables included
	High voltage control box	BSMC-1000V-120A	pcs	1	
	Battery rack	11 layers	pcs	1	
	Connector	MC4	pair	10	
	PV cable	PV1-F 1*6mm²	m	400	Half in red and half in black
	Moniting	WIFI module	pcs	1	Standard
	PV mounting system	Mounting structures for 55 modules	set	1	
MODEL			BSC-30KW-54KWh		
System Parameter					
AC rated power			30000W		
Battery capacity			54272Wh		
AC voltage			220V		
Rated grid frequency			50/60Hz		
Inverter Parameter					
Model			ATESS HP30-US-220		
Rated power			33kVA /30kW		
Frequency			50/60 Hz		
Nominal Voltage			220V		
Overload capability			110%-10 mins 120%-1 min		
Max . PV Voltage			800VDC		
PV Array MPPT Voltage Range			125V-620V		
MAX PV power			36kWp		
Cooling			Forced-air		
Dimensions, D x W x H(mm)			600*1000*315		
Weight (Kgs)			90		
Battery Parameter					
Model			BSM48106H*10		
Battery Type			LiFePO4(LFP)		
Nominal Voltage (V)			51.2		
Nominal Capacity (WH)			5427.2*10		
Voltage Range (V)			(44.8~57.6)*10		
Max. Charge/Discharge Current(A)			100		
Communicaiton			RS485/CAN		
Weight (Kgs)			650.7(indoor)/874.2(outdoor)		
Design Life			10 years+		
Cycle Life			>8000 @25°C		
Environment					
Maximum operation altitude			4000m		
Working Temperature			0°C~ 50°C Charge ; -10°C~ 50°C Discharge		
Shelf Temperature			-20°C~ 60°C		