

BSI Series

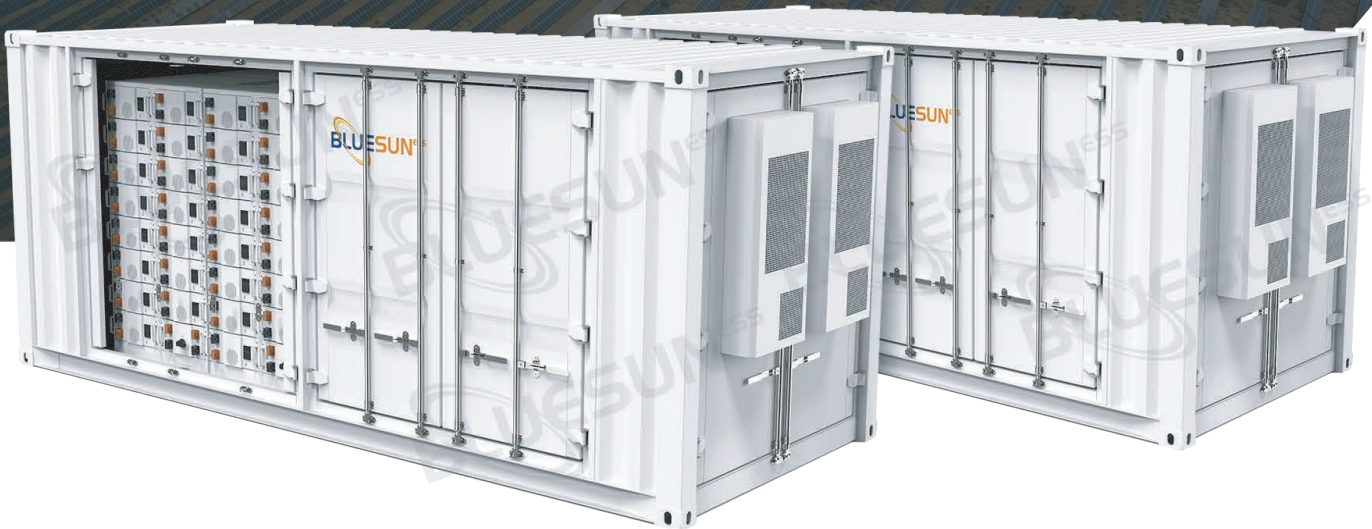
BSI-Container-20FT

250KW/800KWH

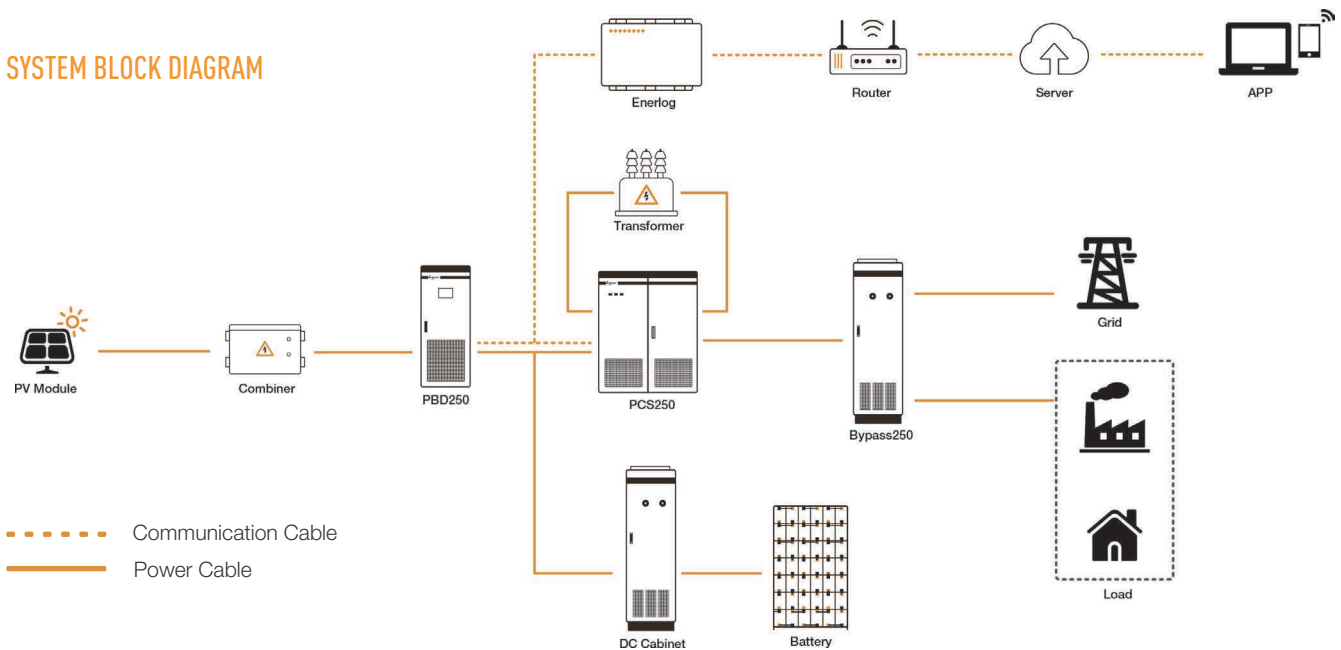
Industrial Energy Storage System

Standard Proposal

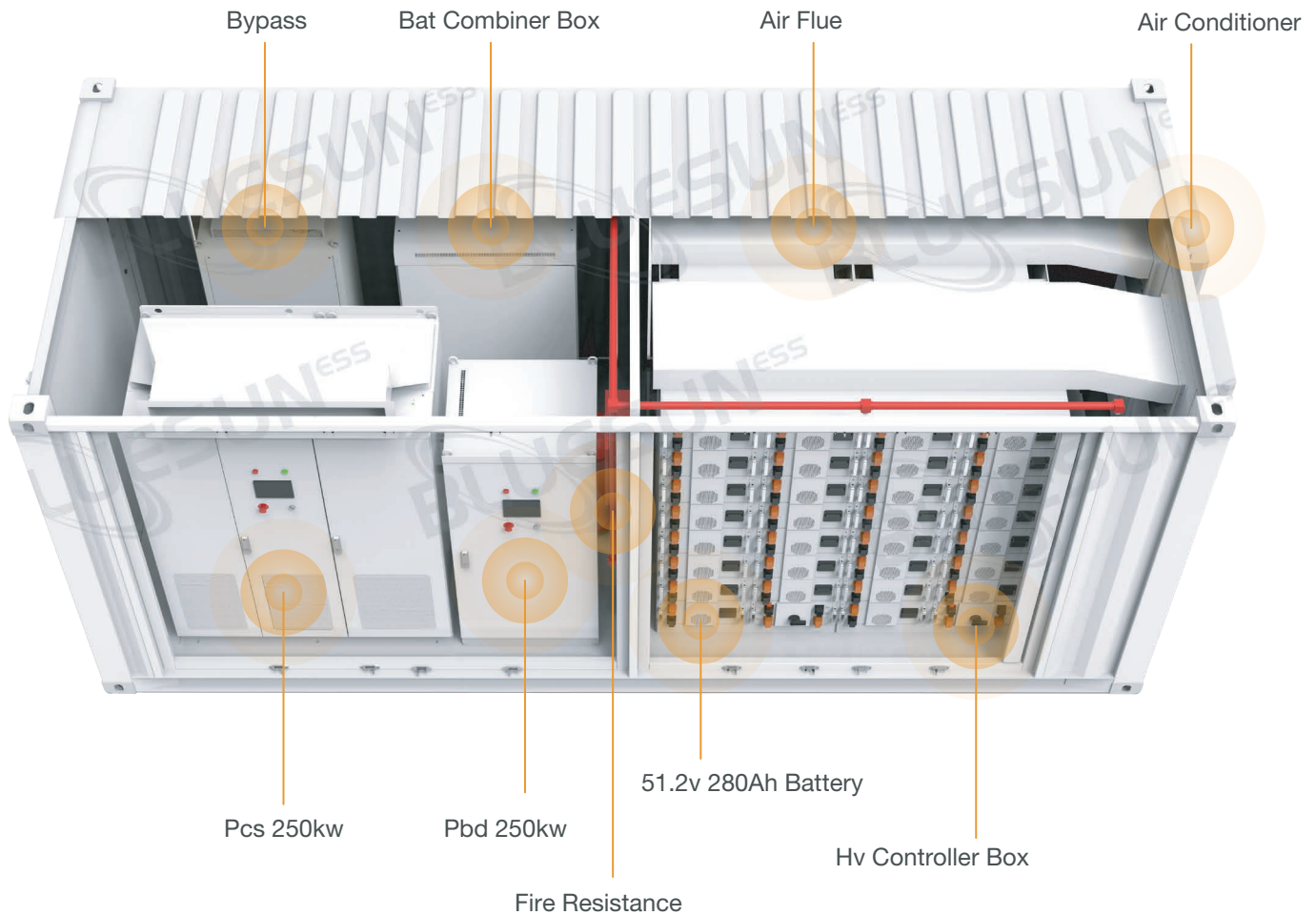
- Bluesun provides the integrated system solution with one stop service
- With multiple operating modes to meet customer needs
- Optimal configuration, high cost performance ratio



SYSTEM BLOCK DIAGRAM



System Block Diagram



Item	Quantity		Description	Comments
PV	BSM570M10-72HPH	495	11 pieces/string; A total of 45 strings; A total of 282.15kWp	
Battery 802.82KWH (642.25KWH available at 80% DOD) Backup	BAT-Combiner box 1000V-630A	1	For combination of multiple battery racks	
	BLUESUN-51.2V 280AH module	56	Battery With BMU module 51.2V 280AH Capacity 14.3kWh	
	BLUESUN-HV-Controller1000V 300A	4	High Voltage Controller Box	
PV-Combiner Box	9 Inputs 1 Output	5	For combination of multiple PV module strings	
PBD250		1	250kW solar charge controller	
PCS250		1	250kW battery inverter	
Bypass 250		1	Switch between on-grid and off-grid	
EnerLog		1	Monitoring datalogger	
20FT Container		1	For outdoor installation, IP54,including lighting, fire-resistance system, battery rack,air conditioner	

BSI Series

BSI-Container-40FT

500KW/2150KWH

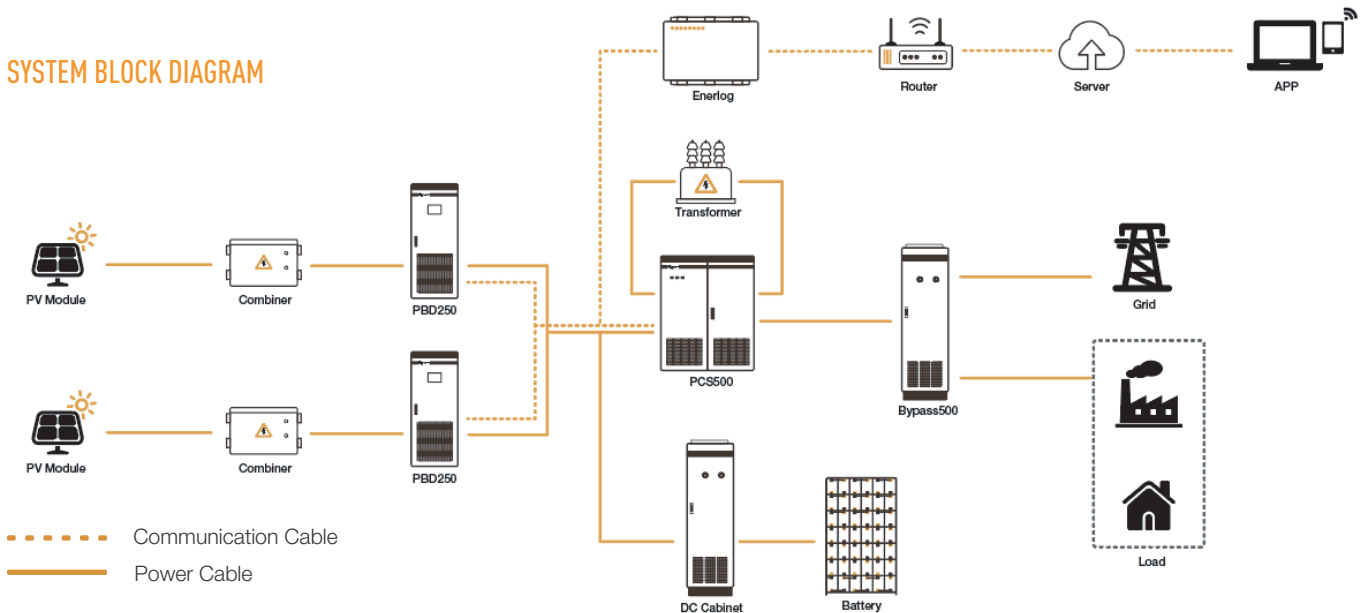
Industrial Energy Storage System

Standard Proposal

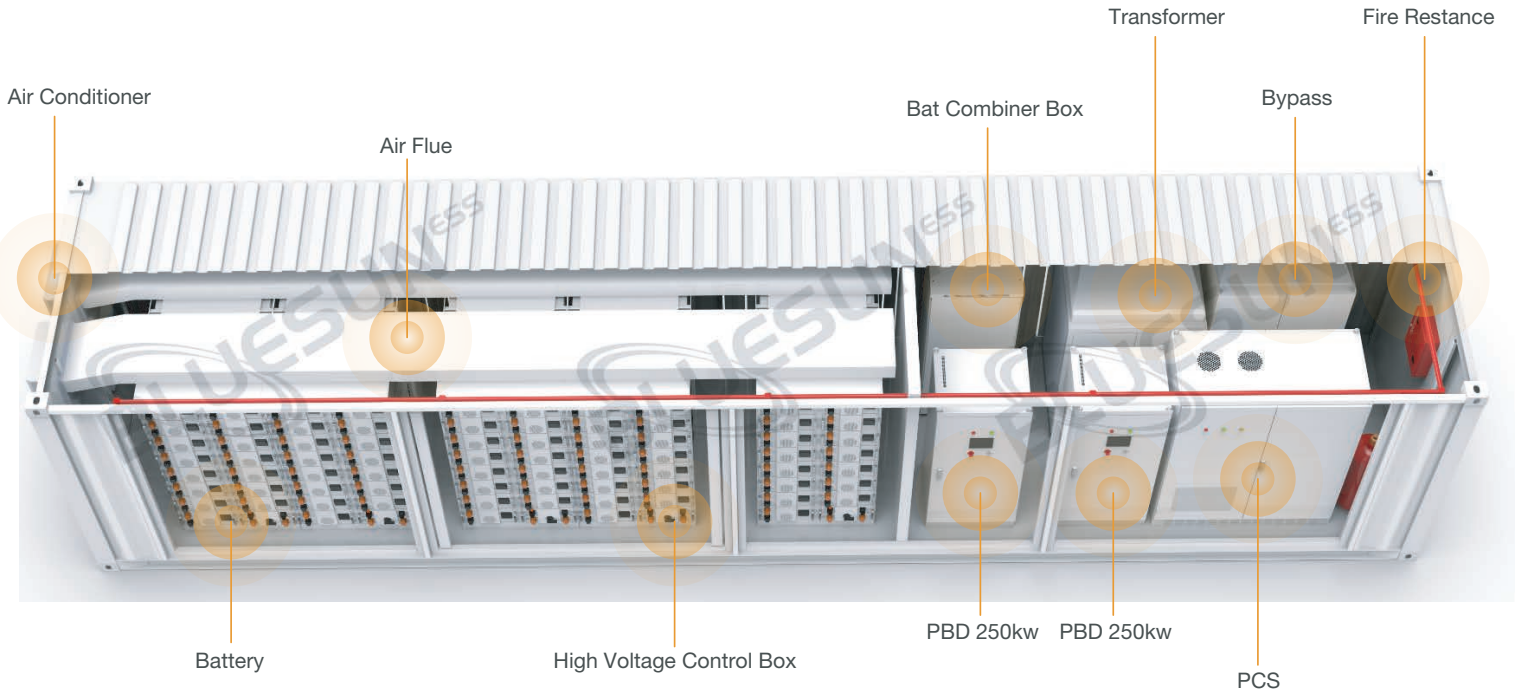
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SYSTEM BLOCK DIAGRAM



System Block Diagram



Item	Quantity		Description	Comments
PV	BSM570M10-72HPH	990	11 pieces/string; A total of 90 strings; A total of 564.3kWp	
Battery 2150.4KWH (1720.32KWH available at 80% DOD) Backup	BAT-Combiner box 1000V-1500A	1	For combination of multiple battery racks	
	BLUESUN-51.2V 280AH module	150	Battery With BMU module 51.2V 280AH Capacity 14.3kWh	
	BLUESUN-HV-Controller1000V 300A	10	High Voltage Controller Box	
PV-Combiner Box	9 Inputs 1 Output	10	For combination of multiple PV module strings	
PBD250		2	250kW solar charge controller	
PCS500		1	250kW battery inverter	
Isolation Transformer 500		1	500KVA Isolation Transformer	
Bypass 500		1	Switch between on-grid and off-grid	
EnerLog		1	Monitoring datalogger	
40FT Container		1	For outdoor installation, IP54,including lighting, fire-resistance system, battery rack,air conditioner	

Bluesun Container

Features of BMS

Battery status monitoring

- Events record and storage function
- Operation control
- Insulation detection
- Dynamic balancing management
- Protection alarms
- Communication

BMU:

Battery Management Unit

BECU:

Battery Electric Controller Unit

BSMU:

Batter System Management Unit

Fire Protection system

- Automatic fire detecting
- Manual/automatic fire alarming
- Control room and local fire alarm device
- Fault alarm for fire detecting and alarming system
- The accumulator is placed in fire alarming controller. When the main power is off, the accumulator will supply the power to the automatic fire alarming system
- The monitoring function for the open circuit and short circuit in detecting circuit
- The monitoring function for the open circuit and short circuit in alarming circuit

Features of PCS

- Wide-range of DC input voltage
- 10% additional power for continuous operation at ambient temperature up to 40 °C
- Short conversion time of full power from charge to discharge
- Indoor or outdoor installation
- Low voltage ride through
- Reactive power adjustable, max. reactive power up to 500kVar
- Active power derating
- Film capacitor design

Air Condition System

- Power-off memory And Reboot
- Remote fault identification and alarm, and report the fault through RS485
- Use the fuzzy intelligence control for remote communication
- Have the cooling, heating, constant temperature and dehumidifying mode
- Heating control
- Temperature control
- Operation without failure continuous more than 2500 hours, Long life, good working performance in harsh environment



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