

## BSR Series

# BSR-12KW-32KWh

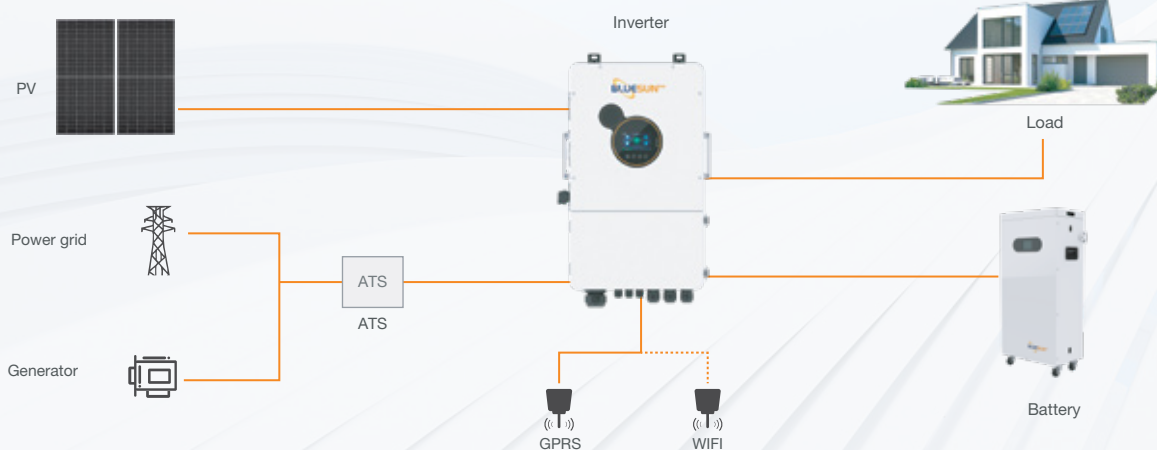
## Residential energy storage system Standard Proposal

| PV Power       | Equipment | Remark   |
|----------------|-----------|----------|
| BSR-12KW-32KWh | PV        | 15.6KWp  |
|                | Inverter  | 12KW     |
|                | Battery   | 32.15KWh |

### HIGHLIGHTS:

- Bluesun provides the integrated system solution with one stop service
- one unit 14.3kwh battery, most cost effective
- Lithium battery and inverter communication match, running perfectly
- Upport parallel connection for scalable capacity expansion.

### PRODUCT TOPOLOGY



| RESIDENTIAL ENERGY STORAGE SYSTEM STANDARD PROPOSAL |                    |                                    |      |          |                                  |
|-----------------------------------------------------|--------------------|------------------------------------|------|----------|----------------------------------|
| PV Power                                            | Equipment          | Model                              | Unit | Quantity | Remark                           |
| BSR-12KW-32KWh<br>15600Wp/12KW/32152Wh              | PV modules         | BSM650G12-60HNH                    | pcs  | 24       | 8 pcs one string;total 3 strings |
|                                                     | Inverter           | BSE12KLNA                          | pcs  | 1        |                                  |
|                                                     | Battery            | BSM48314                           | pcs  | 2        | Cables included                  |
|                                                     | Busbar             | 300A                               | pcs  | 2        | Half red and half black          |
|                                                     | Connector          | MC4                                | pair | 4        |                                  |
|                                                     | PV cable           | PV1-F 1*4mm²                       | m    | 200      | Half in red and half in black    |
|                                                     | Moniting           | WIFI module                        | pcs  | 1        | Standard                         |
|                                                     | PV mounting system | Mounting structures for 24 modules | set  | 1        |                                  |

## MODEL BSR-12KW-32KWh

### System Parameter

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| AC rated power       | 12000W                                                          |
| Battery capacity     | 32152Wh                                                         |
| AC voltage           | 120/240Vac, single-phase / split-phase / three-phase (parallel) |
| Rated grid frequency | 50/60Hz                                                         |

### Inverter Parameter

|                                     |                                                                       |
|-------------------------------------|-----------------------------------------------------------------------|
| Model                               | BSM12KLNA                                                             |
| Rated power                         | 12000W                                                                |
| Frequency                           | 50/60 Hz                                                              |
| Nominal Voltage                     | 120Vac, single-phase / 240Vac, split-phase/three-phase, be paralleled |
| Peak Efficiency (PV to INV)         | >96 %                                                                 |
| Max . PV Array Open Circuit Voltage | 500VDC                                                                |
| PV Array MPPT Voltage Range         | 125~425Vdc                                                            |
| Max . Solar InputCurrent            | 22A                                                                   |
| Max . Charge Current                | 200A                                                                  |
| Dimensions, D x W x H(mm)           | 750*440*240                                                           |
| Weight (Kgs )                       | 42                                                                    |

### Battery Parameter

|                                  |              |
|----------------------------------|--------------|
| Model                            | BSM48314*2   |
| Battery Type                     | LiFePO4(LFP) |
| Nominal Voltage (V)              | 51.2         |
| Nominal Capacity (WH)            | 16076.8*2    |
| Voltage Range (V)                | 40~58.4      |
| Max. Charge/Discharge Current(A) | 200          |
| Communicaiton                    | RS485/CAN    |
| Dimensions, D x W x H(mm)        | 445*251*944  |
| Weight (Kgs )                    | 235.2        |
| Design Life                      | 10 years+    |
| Cycle Life                       | >6000 @25°C  |

### Environment

|                            |                                          |
|----------------------------|------------------------------------------|
| Operation humidity range   | 0~95% (no condensation)                  |
| Maximum operation altitude | 2000m                                    |
| Working Temperature        | 0°C~ 50°C Charge ; -10°C~ 50°C Discharge |
| Shelf Temperature          | -20°C~ 60°C                              |