



BLUESUN

# Lithium Battety

## BSM Series

\*Release BLUESUN Battery Series 2024-10-Rev01-EN



### Low Temperature Heating

Our multipurpose batteries can be heated, to ensure normal operation and charging in temperatures as low as -20°C (-5°F).



### Bluetooth

Connect to your battery via Bluetooth using our mobile app for continuous, real-time monitoring of your battery's status.



### IP65

Ensure peace of mind during your next fishing or water sports adventure.



### Detachable Design

This design ensures good maintainability of the battery and avoids damage to the case during possible repairs.

## BSM-Series

The product of BSM Series is specially designed for multiple applications by Bluesun.

These battery modules adopt an ABS shell, which can be used 24/7. They have outstanding advantages of being waterproof, Bluetooth capabilities, impact resistance, good insulation performance, easy installation and maintenance-free.

These allow them to meet the application of RVs, solar lights, small medical equipments, toys and some small off-grid energy storage scenarios.

Battery modules integrate intelligent BMS inside which offers great advantages in terms of safety, cycle life, balancing and smart control.



### APP Download:



ISO



Android

# BSM-Series Basic Information



| Module   | Voltage | Capacity | Size (mm)     | Weight (kg) | Load   | Max charge current | Max discharge current | Peak current (5S) | Operational Function | Packing Size (mm) |
|----------|---------|----------|---------------|-------------|--------|--------------------|-----------------------|-------------------|----------------------|-------------------|
| BSM12007 | 12.8V   | 7Ah      | 151*65*94     | 1.0         | ≤100W  | 7A                 | 7A                    | 30A               | BLUETOOTH/HEATING    | 155*70*108        |
| BSM12010 | 12.8V   | 10Ah     | 151*99*94     | 1.7         | ≤100W  | 10A                | 10A                   | 35A               | BLUETOOTH/HEATING    | 155*105*108       |
| BSM12012 | 12.8V   | 12Ah     | 151*99*94     | 1.4         | ≤200W  | 12A                | 12A                   | 40A               | BLUETOOTH/HEATING    | 155*105*108       |
| BSM12020 | 12.8V   | 20Ah     | 165*126*175   | 3.0         | ≤300W  | 20A                | 20A                   | 60A               | BLUETOOTH/HEATING    | 170*131*183       |
| BSM12025 | 12.8V   | 25Ah     | 165*126*175   | 3.1         | ≤350W  | 25A                | 25A                   | 70A               | BLUETOOTH/HEATING    | 170*131*183       |
| BSM12030 | 12.8V   | 30Ah     | 174*165*125   | 3.6         | ≤400W  | 30A                | 30A                   | 80A               | BLUETOOTH/HEATING    | 180*170*135       |
| BSM12050 | 12.8V   | 50Ah     | 198*166*170   | 5.8         | ≤500W  | 50A                | 50A                   | 150A              | BLUETOOTH/HEATING    | 205*171*175       |
| BSM12104 | 12.8V   | 104Ah    | 331*171*217   | 11.5        | ≤1000W | 100A               | 100A                  | 300A              | STANDARD             | 390*230*235       |
| BSM12150 | 12.8V   | 150Ah    | 502*186.5*242 | 18.0        | ≤1500W | 150A               | 150A                  | 400A              | STANDARD             | 560*245*300       |
| BSM12208 | 12.8V   | 208Ah    | 502*186.5*242 | 21.5        | ≤2000W | 200A               | 200A                  | 450A              | STANDARD             | 560*245*300       |
| BSM24104 | 25.6V   | 104Ah    | 502*186.5*242 | 21.5        | ≤2000W | 100A               | 100A                  | 300A              | STANDARD             | 560*245*300       |
| BSM12280 | 12.8V   | 280Ah    | 522*244*222   | 28.0        | ≤2000W | 200A               | 200A                  | 450A              | STANDARD             | 605*323*301       |
| BSM24150 | 25.6V   | 150Ah    | 522*244*222   | 25.0        | ≤3000W | 150A               | 150A                  | 400A              | STANDARD             | 605*323*301       |
| BSM24208 | 25.6V   | 208Ah    | 635*244*220.5 | 38.0        | ≤4000W | 200A               | 200A                  | 450A              | STANDARD             | 693*302*275       |

# B<sup>Series</sup> SM

## BSM12007

### Lithium Battery



#### BASIC PARAMETER

#### BSM12007

|                    |      |
|--------------------|------|
| Rated Voltage(V)   | 12.8 |
| Rated Capacity(Ah) | 7    |
| Rated Energy (wh)  | 89.6 |

#### OPERATION PARAMETER

|                                |                             |
|--------------------------------|-----------------------------|
| Voltage Range (V)              | 10-14                       |
| Cut-off Voltage(V)             | 10                          |
| Recommended Charge Current(A)  | ≤3                          |
| Max Constant Charge Current(A) | 7                           |
| Max Discharge Current(A)       | 7A(constant) 8A (Pulse:30s) |

#### PHYSICAL PARAMETER

|                     |           |
|---------------------|-----------|
| Dimension:W*D*H(mm) | 151*65*94 |
| Weight(KGS)         | 1         |
| Display Method      | /         |

#### SERVICE LIFE

|                    |                           |
|--------------------|---------------------------|
| Cycle Life (Time)  | >6000(0.5C@25°C, 80% DOD) |
| Design Life (Year) | 15                        |

#### ENVIRONMENT PARAMETER

|                             |                            |
|-----------------------------|----------------------------|
| Humidity (%)                | 5-95% RH                   |
| Charge Temperature Range    | -20~45°C/-4~113°F(Heating) |
| Discharge Temperature Range | -20~55°C/-4~131°F          |
| Storage Temperature Range   | -20~45°C/-4~113°F          |

#### CERTIFICATION

|                        |        |
|------------------------|--------|
| Safety & Certification | CE     |
| Transportation         | UN38.3 |

# B Series BSM

## BSM12010/12012 Lithium Battery



| BASIC PARAMETER                | BSM12010                      | BSM12012                      |
|--------------------------------|-------------------------------|-------------------------------|
| Rated Voltage(V)               | 12.8                          | 12.8                          |
| Rated Capacity(Ah)             | 10                            | 12                            |
| Rated Energy (wh)              | 128                           | 153.6                         |
| OPERATION PARAMETER            |                               |                               |
| Voltage Range (V)              | 10-14                         |                               |
| Cut-off Voltage(V)             | 10                            |                               |
| Recommended Charge Current(A)  | ≤5                            | ≤6                            |
| Max Constant Charge Current(A) | 10                            | 12                            |
| Max Discharge Current(A)       | 10A(constant) 12A (Pulse:30s) | 12A(constant) 15A (Pulse:30s) |
| PHYSICAL PARAMETER             |                               |                               |
| Dimension:W*D*H(mm)            | 151*99*94                     |                               |
| Weight(KGS)                    | 1.7                           | 1.4                           |
| Display Method                 | /                             |                               |
| SERVICE LIFE                   |                               |                               |
| Cycle Life (Time)              | >6000(0.5C@25°C, 80% DOD)     |                               |
| Design Life (Year)             | 15                            |                               |
| ENVIRONMENT PARAMETER          |                               |                               |
| Humidity (%)                   | 5-95% RH                      |                               |
| Charge Temperature Range       | -20~45°C/-4~113°F(Heating)    |                               |
| Discharge Temperature Range    | -20~55°C/-4~131°F             |                               |
| Storage Temperature Range      | -20~45°C/-4~113°F             |                               |
| CERTIFICATION                  |                               |                               |
| Safety & Certification         | CE                            |                               |
| Transportation                 | UN38.3                        |                               |

# B<sup>Series</sup>SM

## BSM12020/12025 Lithium Battery



| BASIC PARAMETER                | BSM12020                      | BSM12025                      |
|--------------------------------|-------------------------------|-------------------------------|
| Rated Voltage(V)               | 12.8                          | 12.8                          |
| Rated Capacity(Ah)             | 20                            | 25                            |
| Rated Energy (wh)              | 256                           | 320                           |
| OPERATION PARAMETER            |                               |                               |
| Voltage Range (V)              | 10-14                         |                               |
| Cut-off Voltage(V)             | 10                            |                               |
| Recommended Charge Current(A)  | ≤10                           | ≤12                           |
| Max Constant Charge Current(A) | 20                            | 25                            |
| Max Discharge Current(A)       | 20A(constant) 24A (Pulse:30s) | 25A(constant) 30A (Pulse:30s) |
| PHYSICAL PARAMETER             |                               |                               |
| Dimension:W*D*H(mm)            | 165*129*175                   |                               |
| Weight(KGS)                    | 3.0                           | 3.1                           |
| Display Method                 | /                             |                               |
| SERVICE LIFE                   |                               |                               |
| Cycle Life (Time)              | >6000(0.5C@25°C, 80% DOD)     |                               |
| Design Life (Year)             | 15                            |                               |
| ENVIRONMENT PARAMETER          |                               |                               |
| Humidity (%)                   | 5-95% RH                      |                               |
| Charge Temperature Range       | -20~45°C/-4~113°F(Heating)    |                               |
| Discharge Temperature Range    | -20~55°C/-4~131°F             |                               |
| Storage Temperature Range      | -20~45°C/-4~113°F             |                               |
| CERTIFICATION                  |                               |                               |
| Safety & Certification         | CE                            |                               |
| Transportation                 | UN38.3                        |                               |

# B<sup>Series</sup> SM

## BSM12030

### Lithium Battery



#### BASIC PARAMETER

#### BSM12030

|                    |      |
|--------------------|------|
| Rated Voltage(V)   | 12.8 |
| Rated Capacity(Ah) | 30   |
| Rated Energy (wh)  | 384  |

#### OPERATION PARAMETER

|                                |                               |
|--------------------------------|-------------------------------|
| Voltage Range (V)              | 10-14                         |
| Cut-off Voltage(V)             | 10                            |
| Recommended Charge Current(A)  | ≤15                           |
| Max Constant Charge Current(A) | 30                            |
| Max Discharge Current(A)       | 30A(constant) 36A (Pulse:30s) |

#### PHYSICAL PARAMETER

|                     |             |
|---------------------|-------------|
| Dimension:W*D*H(mm) | 174*165*125 |
| Weight(KGS)         | 3.6         |
| Display Method      | /           |

#### SERVICE LIFE

|                    |                           |
|--------------------|---------------------------|
| Cycle Life (Time)  | >6000(0.5C@25°C, 80% DOD) |
| Design Life (Year) | 15                        |

#### ENVIRONMENT PARAMETER

|                             |                            |
|-----------------------------|----------------------------|
| Humidity (%)                | 5-95% RH                   |
| Charge Temperature Range    | -20~45°C/-4~113°F(Heating) |
| Discharge Temperature Range | -20~55°C/-4~131°F          |
| Storage Temperature Range   | -20~45°C/-4~113°F          |

#### CERTIFICATION

|                        |        |
|------------------------|--------|
| Safety & Certification | CE     |
| Transportation         | UN38.3 |

# B<sup>Series</sup> SM

## BSM12050

### Lithium Battery



#### BASIC PARAMETER

#### BSM12050

|                    |      |
|--------------------|------|
| Rated Voltage(V)   | 12.8 |
| Rated Capacity(Ah) | 50   |
| Rated Energy (wh)  | 640  |

#### OPERATION PARAMETER

|                                |                               |
|--------------------------------|-------------------------------|
| Voltage Range (V)              | 10-14                         |
| Cut-off Voltage(V)             | 10                            |
| Recommended Charge Current(A)  | ≤25                           |
| Max Constant Charge Current(A) | 50                            |
| Max Discharge Current(A)       | 50A(constant) 60A (Pulse:30s) |

#### PHYSICAL PARAMETER

|                     |             |
|---------------------|-------------|
| Dimension:W*D*H(mm) | 198*166*170 |
| Weight(KGS)         | 5.8         |
| Display Method      | /           |

#### SERVICE LIFE

|                    |                           |
|--------------------|---------------------------|
| Cycle Life (Time)  | >6000(0.5C@25°C, 80% DOD) |
| Design Life (Year) | 15                        |

#### ENVIRONMENT PARAMETER

|                             |                            |
|-----------------------------|----------------------------|
| Humidity (%)                | 5-95% RH                   |
| Charge Temperature Range    | -20~45°C/-4~113°F(Heating) |
| Discharge Temperature Range | -20~55°C/-4~131°F          |
| Storage Temperature Range   | -20~45°C/-4~113°F          |

#### CERTIFICATION

|                        |        |
|------------------------|--------|
| Safety & Certification | CE     |
| Transportation         | UN38.3 |

# BSM Series

## BSM12104

### Lithium Battery



| Basic Parameter                | BSM12104                        |
|--------------------------------|---------------------------------|
| Rated Voltage(V)               | 12.8                            |
| Rated Capacity(Ah)             | 104                             |
| Rated Energy (wh)              | 1331.2                          |
| Operation Parameter            |                                 |
| Voltage Range (v)              | 10-14                           |
| Cut-off Voltage(V)             | 10                              |
| Recommended Charge Current(A)  | ≤50                             |
| Max Constant Charge Current(A) | 100                             |
| Max Discharge Current(A)       | 100A(constant) 120A (Pulse:30s) |
| Physical Parameter             |                                 |
| Dimension:W*D*H(mm)            | 331*171*217                     |
| Weight(KGS)                    | 11.5                            |
| Display Method                 | Bluetooth                       |
| Service Life                   |                                 |
| Cycle Life (Time)              | >6000(0.5C@25°C, 80% DOD)       |
| Design Life (Year)             | 15                              |
| Environment Parameter          |                                 |
| Humidity (%)                   | 5-95% RH                        |
| Charge Temperature Range       | -20~45°C/-4~113°F(Heating)      |
| Discharge Temperature Range    | -20~55°C/-4~131°F               |
| Storage Temperature Range      | -20~45°C/-4~113°F               |
| Certification                  |                                 |
| Safety & Certification         | CE                              |
| Transportation                 | UN38.3                          |

**B** Series  
**BSM**

# BSM12208/12150/24104

## Lithium Battery



| BASIC PARAMETER                | BSM12208                        | BSM12150                        | BSM24104                        |
|--------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Rated Voltage(V)               | 12.8                            | 12.8                            | 25.6                            |
| Rated Capacity(Ah)             | 208                             | 150                             | 104                             |
| Rated Energy (wh)              | 2662.4                          | 1920                            | 2662.4                          |
| OPERATION PARAMETER            |                                 |                                 |                                 |
| Voltage Range (v)              | 10-14                           | 10-14                           | 20-28                           |
| Cut-off Voltage(V)             | 10                              | 10                              | 20                              |
| Recommended Charge Current(A)  | ≤100                            | ≤75                             | ≤50                             |
| Max Constant Charge Current(A) | 200                             | 150                             | 100                             |
| Max Discharge Current(A)       | 200A(constant) 220A (Pulse:30s) | 150A(constant) 180A (Pulse:30s) | 100A(constant) 120A (Pulse:30s) |
| PHYSICAL PARAMETER             |                                 |                                 |                                 |
| Dimension:W*D*H(mm)            |                                 | 502*186.5*242                   |                                 |
| Weight(KGS)                    | 21.5                            | 18.0                            | 21.5                            |
| Display Method                 | Bluetooth                       | /                               | Bluetooth                       |
| SERVICE LIFE                   |                                 |                                 |                                 |
| Cycle Life (Time)              |                                 | >6000(0.5C@25°C, 80% DOD)       |                                 |
| Design Life (Year)             |                                 | 15                              |                                 |
| ENVIRONMENT PARAMETER          |                                 |                                 |                                 |
| Humidity (%)                   |                                 | 5-95% RH                        |                                 |
| Charge Temperature Range       |                                 | -20~45°C/-4~113°F(Heating)      |                                 |
| Discharge Temperature Range    |                                 | -20~55°C/-4~131°F               |                                 |
| Storage Temperature Range      |                                 | -20~45°C/-4~113°F               |                                 |
| CERTIFICATION                  |                                 |                                 |                                 |
| Safety & Certification         |                                 | CE                              |                                 |
| Transportation                 |                                 | UN38.3                          |                                 |

# B<sup>Series</sup> SM

## BSM12280/24150

### Lithium Battery

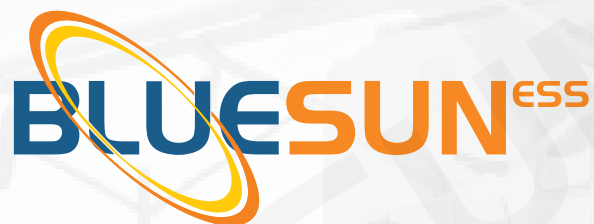


| BASIC PARAMETER                | BSM12280                        | BSM24150                        |
|--------------------------------|---------------------------------|---------------------------------|
| Rated Voltage(V)               | 12.8                            | 25.6                            |
| Rated Capacity(Ah)             | 280                             | 150                             |
| Rated Energy (wh)              | 3584                            | 3820                            |
| OPERATION PARAMETER            |                                 |                                 |
| Voltage Range (v)              | 10-14                           | 20-28                           |
| Cut-off Voltage(V)             | 10                              | 20                              |
| Recommended Charge Current(A)  | ≤100                            | ≤75                             |
| Max Constant Charge Current(A) | 200                             | 150                             |
| Max Discharge Current(A)       | 200A(constant) 220A (Pulse:30s) | 150A(constant) 180A (Pulse:30s) |
| PHYSICAL PARAMETER             |                                 |                                 |
| Dimension:W*D*H(mm)            | 522*244*222                     |                                 |
| Weight(KGS)                    | 28.0                            | 25.0                            |
| Display Method                 | Bluetooth                       | /                               |
| SERVICE LIFE                   |                                 |                                 |
| Cycle Life (Time)              | >6000(0.5C@25°C, 80% DOD)       |                                 |
| Design Life (Year)             | 15                              |                                 |
| ENVIRONMENT PARAMETER          |                                 |                                 |
| Humidity (%)                   | 5-95% RH                        |                                 |
| Charge Temperature Range       | -20~45°C/-4~113°F(Heating)      |                                 |
| Discharge Temperature Range    | -20~55°C/-4~131°F               |                                 |
| Storage Temperature Range      | -20~45°C/-4~113°F               |                                 |
| CERTIFICATION                  |                                 |                                 |
| Safety & Certification         | CE                              |                                 |
| Transportation                 | UN38.3                          |                                 |

**B** Series  
**SM** **BSM24208**  
Lithium Battery



| BASIC PARAMETER                |  | BSM24208                        |
|--------------------------------|--|---------------------------------|
| Rated Voltage(V)               |  | 25.6                            |
| Rated Capacity(Ah)             |  | 208                             |
| Rated Energy (wh)              |  | 5324.8                          |
| OPERATION PARAMETER            |  |                                 |
| Voltage Range (V)              |  | 20-28                           |
| Cut-off Voltage(V)             |  | 20                              |
| Recommended Charge Current(A)  |  | ≤100                            |
| Max Constant Charge Current(A) |  | 200                             |
| Max Discharge Current(A)       |  | 200A(constant) 220A (Pulse:30s) |
| PHYSICAL PARAMETER             |  |                                 |
| Dimension:W*D*H(mm)            |  | 635*244*220.5                   |
| Weight(KGS)                    |  | 38                              |
| Display Method                 |  | Bluetooth                       |
| SERVICE LIFE                   |  |                                 |
| Cycle Life (Time)              |  | >6000(0.5C@25°C, 80% DOD)       |
| Design Life (Year)             |  | 15                              |
| ENVIRONMENT PARAMETER          |  |                                 |
| Humidity (%)                   |  | 5-95% RH                        |
| Charge Temperature Range       |  | -20~45°C/-4~113°F(Heating)      |
| Discharge Temperature Range    |  | -20~55°C/-4~131°F               |
| Storage Temperature Range      |  | -20~45°C/-4~113°F               |
| CERTIFICATION                  |  |                                 |
| Safety & Certification         |  | CE                              |
| Transportation                 |  | UN38.3                          |



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