

# STANDBY SERIES

## SN12055 (12V 55AH)



### Specifications

|                                  |  |
|----------------------------------|--|
| Nominal Voltage                  | 12V  |
| Nominal Capacity(10hr)           | 55AH   |
| Dimension                        | Length 229±2mm(9.02inch)                         |
|                                  | Width 138±2mm(5.43inch)                          |
|                                  | Height 208±2mm(8.19inch)                         |
|                                  | Total Height 228±2mm(8.98inch)                   |
| Approx Weight                    | Approx. 16.8kg                                   |
| Terminal Type                    | T6/T9/T14  |
| container Material               | ABS(UL-94HB)                                     |
| Internal Resistance              | Approx. 7.5mΩ                                    |
|                                  | 57.89AH/2.89A (20hr, 1.80V/cell, 25°C/77°F)      |
| Rated Capacity                   | 55.0AH/5.5A (10hr, 1.80V/cell, 25°C/77°F)        |
|                                  | 47.3AH/9.46A (5hr, 1.75V/cell, 25°C/77°F)        |
|                                  | 42.9AH/14.3A (3hr, 1.75V/cell, 25°C/77°F)        |
|                                  | 33.6AH/33.6A (1hr, 1.60V/cell, 25°C/77°F)        |
| Max. Discharge Current           | 660A(5S)   |
| Nominal Operating Temp. Range    | 25±3°C (77±5°F)                                  |
| Cycle Use                        | Charge Current Less Than 0.25CA                  |
|                                  | 14.1V~14.7V@25°C(77°F)Temp. Coefficient -30mV/°C |
| Floating Use                     | No limit on Initial Charging Current Voltage     |
|                                  | 13.5V~13.8V@25°C(77°F)Temp. Coefficient -20mV/°C |
| Capacity affected by Temperature | 40°C 103%  |
|                                  | 25°C 100%  |
|                                  | 0°C 86%  |
|                                  | -15°C 65%  |
| Self-discharge                   | 3 month Remaining capacity: 91%                  |
|                                  | 6 month Remaining capacity: 82%                  |
|                                  | 12month Remaining capacity: 65%                  |



### Constant Power Discharge at 25°C(77°F)

| F.V/Time   | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 172.1 | 136.7 | 117.4 | 99.2  | 79.7  | 60.9  | 50   | 32.1 | 25.5 | 20.9 | 16.9 | 14.7 | 12   | 10.3 | 5.61 |
| 1.80V/cell | 228.6 | 172.6 | 140   | 115.6 | 92.7  | 70.2  | 55.7 | 34.8 | 27.2 | 22.2 | 18   | 15.7 | 12.7 | 10.9 | 5.66 |
| 1.75V/cell | 252.2 | 186.6 | 151   | 123.1 | 95.4  | 72.2  | 58   | 35.9 | 27.6 | 22.6 | 18.4 | 16.1 | 12.9 | 11   | 5.7  |
| 1.70V/cell | 270   | 198.8 | 159   | 128.4 | 98.7  | 74.8  | 59.7 | 37.3 | 28.4 | 23.1 | 18.9 | 16.4 | 13   | 11.1 | 5.81 |
| 1.65V/cell | 293.6 | 212.6 | 167.8 | 135.4 | 103.3 | 76    | 61.2 | 38.1 | 29.4 | 23.8 | 19.3 | 16.7 | 13.2 | 11.3 | 5.88 |
| 1.60V/cell | 316.3 | 225.5 | 176.5 | 142.7 | 108.3 | 78.8  | 63.1 | 39.2 | 30.2 | 24.5 | 19.9 | 17   | 13.3 | 11.4 | 5.9  |

### Constant Current Discharge at 25°C(77°F)

| F.V/Time   | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 94.1  | 74    | 62.9  | 52.6  | 41.8  | 31.7  | 25.9 | 16.5 | 13.1 | 10.7 | 8.6  | 7.49 | 6.08 | 5.19 | 2.83 |
| 1.80V/cell | 126.4 | 94.6  | 76    | 62.2  | 49.4  | 36.8  | 29   | 18   | 14.1 | 11.4 | 9.23 | 8.03 | 6.45 | 5.5  | 2.86 |
| 1.75V/cell | 142.5 | 103.9 | 83.1  | 66.9  | 51.3  | 38.2  | 30.4 | 18.7 | 14.3 | 11.6 | 9.46 | 8.25 | 6.56 | 5.56 | 2.89 |
| 1.70V/cell | 156.9 | 113.3 | 88.7  | 70.4  | 53.3  | 39.7  | 31.3 | 19.4 | 14.7 | 11.9 | 9.71 | 8.42 | 6.65 | 5.61 | 2.94 |
| 1.65V/cell | 173   | 122.2 | 94.3  | 74.7  | 56.3  | 40.7  | 32.4 | 20   | 15.3 | 12.4 | 9.98 | 8.61 | 6.75 | 5.73 | 2.98 |
| 1.60V/cell | 190.8 | 132.7 | 100.8 | 79.6  | 59.4  | 42.5  | 33.6 | 20.7 | 15.8 | 12.7 | 10.3 | 8.79 | 6.82 | 5.79 | 3    |