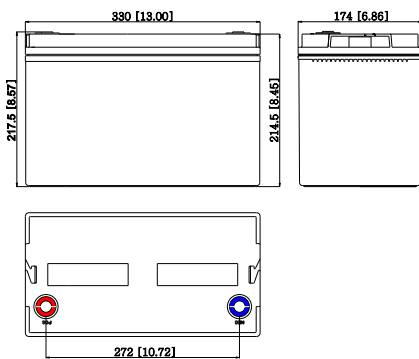


# Solar Series

## Solar12-100



### ■ Dimensions



### ■ Feature

High strength ABS container  
 AGM VRLA sealed technology  
 Polymer gel electrolyte technology  
 Flat paste plate

### ■ Application

Solar system  
 UPS system  
 Electric system  
 Cable television system

### ■ Specifications

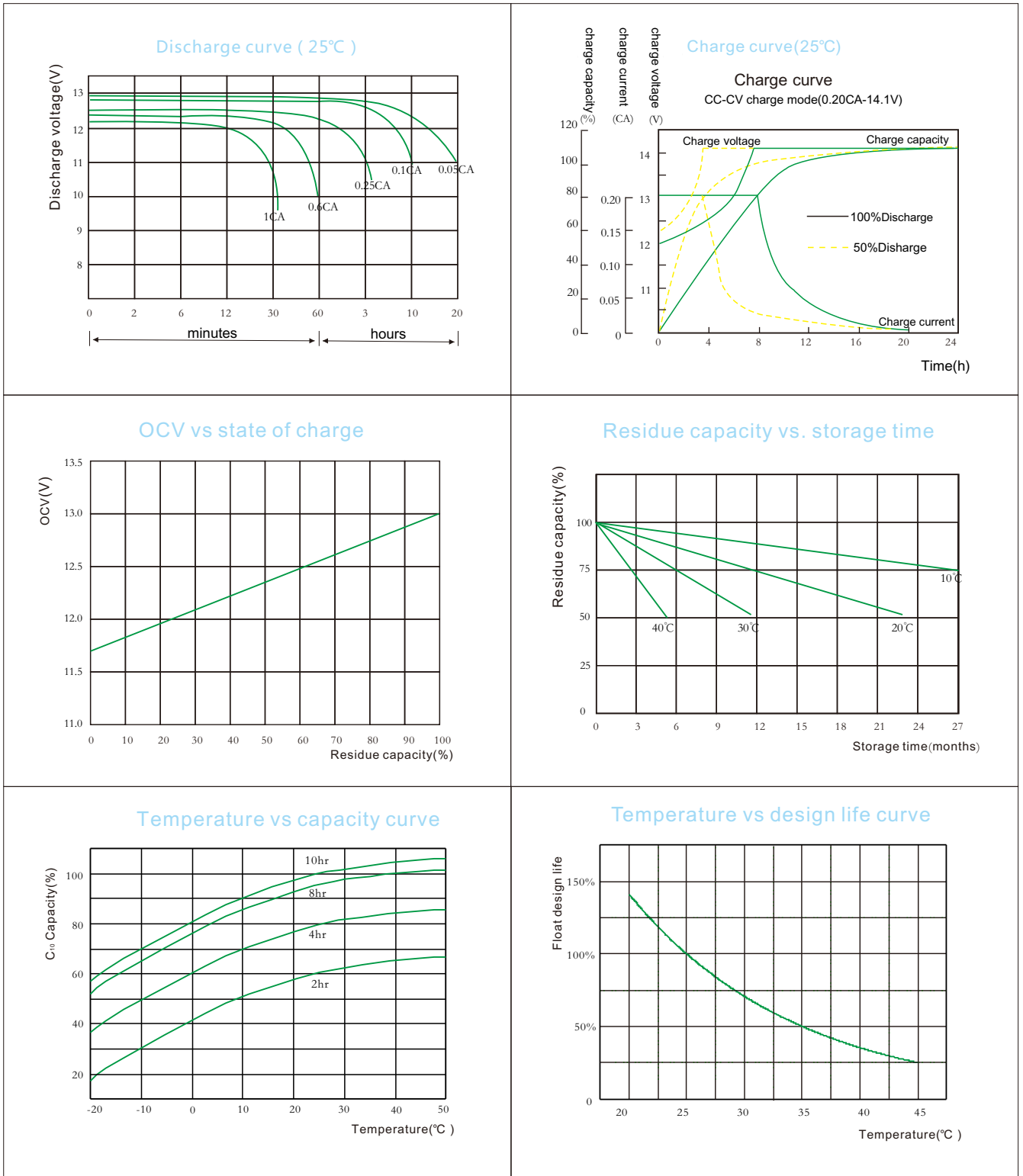
|                     |  |
|---------------------|--|
| Nominal voltage     | 12V  |
| Nominal capacity    | 100Ah(10h rated, 1.80V/cell, 25°C)                                 |
| Weigh               | 32kg   |
| Internal resistance | Approx. 6.6mΩ  |
| Operation temp.     | Discharge: -40°C~50°C<br>Charge: -20°C~50°C<br>Storage: -20°C~40°C |
| Optium temperature  | 15°C~25°C  |
| Float charge        | 2.27V/cell ( 25°C)   |
| Max. charge current | 25A  |
| Equlization charge  | 2.35V~2.40V/cell ( 25°C)   |
| Self discharge      | Residue capacity above 87% after 90 days storage at 25°C           |
| Terminal            | M6   |
| Container material  | ABS  |

### Constant current discharge data ( A, 25°C )

| End voltage /cell | 5min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 12h  | 20h  | 24h  |
|-------------------|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 1.60V             | 371  | 182   | 115   | 83.2  | 63.9 | 36.3 | 26.7 | 21.2 | 17.7 | 15.6 | 12.2 | 10.1 | 8.58 | 5.36 | 4.53 |
| 1.67V             | 349  | 176   | 113   | 81.0  | 63.2 | 36.1 | 26.6 | 21.2 | 17.7 | 15.5 | 12.1 | 10.1 | 8.56 | 5.35 | 4.50 |
| 1.70V             | 338  | 171   | 112   | 79.8  | 62.5 | 35.9 | 26.5 | 21.1 | 17.6 | 15.5 | 12.1 | 10.0 | 8.54 | 5.35 | 4.50 |
| 1.75V             | 311  | 164   | 108   | 77.5  | 61.4 | 35.5 | 26.3 | 21.0 | 17.5 | 15.4 | 12.1 | 10.0 | 8.53 | 5.34 | 4.49 |
| 1.80V             | 277  | 154   | 104   | 74.7  | 60.0 | 35.0 | 26.0 | 20.9 | 17.4 | 15.4 | 12.0 | 10.0 | 8.50 | 5.31 | 4.49 |
| 1.83V             | 240  | 141   | 98.3  | 72.0  | 57.7 | 34.3 | 25.6 | 20.6 | 17.2 | 15.3 | 11.9 | 10.0 | 8.49 | 5.26 | 4.48 |
| 1.85V             | 222  | 135   | 95.5  | 71.6  | 57.0 | 33.9 | 25.4 | 20.5 | 17.2 | 15.1 | 11.9 | 9.88 | 8.44 | 5.25 | 4.46 |

### Constant power discharge data ( W/cell, 25°C )

| End voltage /cell | 5min | 15min | 30min | 45min | 1h  | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 12h  | 20h  | 24h  |
|-------------------|------|-------|-------|-------|-----|------|------|------|------|------|------|------|------|------|------|
| 1.60V             | 620  | 323   | 209   | 156   | 120 | 68.7 | 51.1 | 41.0 | 34.3 | 30.4 | 23.8 | 19.7 | 17.0 | 10.7 | 9.05 |
| 1.67V             | 598  | 314   | 207   | 152   | 119 | 68.3 | 51.0 | 41.0 | 34.2 | 30.3 | 23.7 | 19.7 | 16.9 | 10.6 | 9.02 |
| 1.70V             | 581  | 307   | 205   | 151   | 118 | 68.2 | 50.8 | 40.9 | 34.2 | 30.2 | 23.7 | 19.7 | 16.9 | 10.6 | 9.00 |
| 1.75V             | 543  | 301   | 202   | 147   | 116 | 67.9 | 50.6 | 40.7 | 34.1 | 30.2 | 23.6 | 19.7 | 16.9 | 10.6 | 8.99 |
| 1.80V             | 507  | 285   | 197   | 144   | 116 | 67.5 | 50.2 | 40.6 | 34.0 | 30.2 | 23.6 | 19.7 | 16.9 | 10.6 | 8.98 |
| 1.83V             | 446  | 263   | 188   | 140   | 112 | 66.5 | 49.9 | 40.5 | 34.0 | 30.1 | 23.5 | 19.6 | 16.8 | 10.5 | 8.96 |
| 1.85V             | 413  | 255   | 183   | 139   | 110 | 65.9 | 49.5 | 40.3 | 33.8 | 29.9 | 23.5 | 19.6 | 16.8 | 10.5 | 8.92 |



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