

SDC Series

SDC12-130 12V130Ah



SDC VRLA battery uses AGM and GEL hybrid technology, it has good deep cycle and large current discharge performance. As the economy-type solar battery, it can be widely used in renewable energy, electrical vehicle etc.

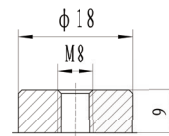
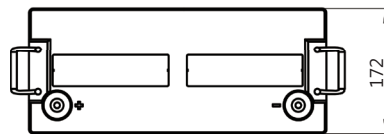
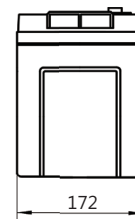
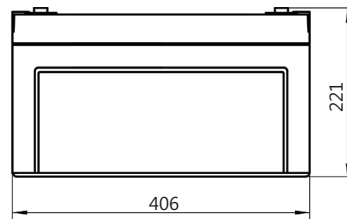
Benefits

- Deep cycle for solar application
- Good large current discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling

Applications

- Electrical Vehicle
- Renewable Energy
- Universal

Drawing



Standards

- IEC 60896-21/22
- IEC 61427
- EUROBAT guide

Specifications

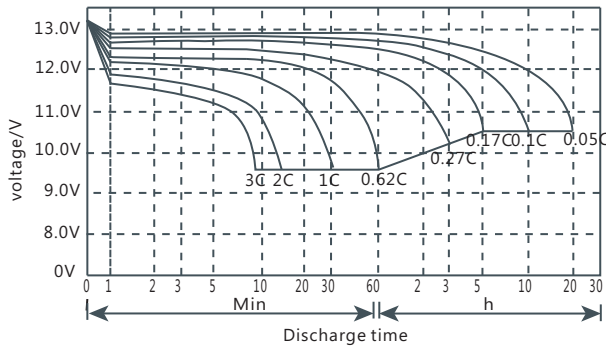
| | | | | |
|---------------------------------------|--|-------------------|-----------------------|-----------------|
| Battery Model | SDC12-130 | | | |
| Design Life (years, 25°C) | 10 | | | |
| Capacity (Ah, 25°C) | 20HR (6.75A, 1.75V) | 10HR (13A, 1.75V) | 5HR (25A, 1.75V) | 3HR(40A, 1.75V) |
| | 135 | 130 | 125 | 120 |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 406 | 172 | 216 | 221 |
| Approx. Weight (kg) | 41.0 | | | |
| Reference Internal Resistance (mΩ) | 4.0 (fully charged @ 25°C) | | | |
| Maximum Discharge Current (A/10 Sec.) | 1080 | | | |
| Self-Discharge (25°C) | < 3% per month | | | |
| Charge Voltage (V/cell, 25°C) | Cycle use | | Float use | |
| | 2.45 (-3.0mV/°C/cell), max charge current: 20A | | 2.35 (-3.0mV/°C/cell) | |
| Short Circuit Current (A) | 2100 | | | |

Discharge Data

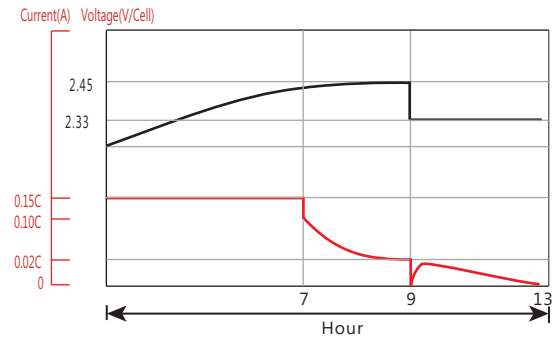
| Constant Current Discharge Data (25°C, A) | | | | | | | | | | | | |
|---|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--|
| End Voltage (V/cell) | min | | | | h | | | | | | | |
| | 10 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 5 | 10 | 20 | |
| 1.60 | 329.1 | 192.4 | 144.6 | 107.5 | 90.9 | 72.12 | 59.32 | 40.84 | 25.45 | 13.23 | 6.851 | |
| 1.65 | 321.8 | 188.6 | 142.3 | 105.8 | 89.6 | 71.13 | 58.69 | 40.60 | 25.32 | 13.16 | 6.811 | |
| 1.70 | 313.3 | 184.0 | 139.2 | 103.9 | 88.4 | 70.35 | 58.12 | 40.36 | 25.17 | 13.08 | 6.777 | |
| 1.75 | 306 | 180.5 | 136.8 | 102.4 | 87.2 | 69.52 | 57.54 | 40.00 | 25.00 | 13.02 | 6.750 | |

| Constant Power Discharge Data (25°C, W/cell) | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--|
| End Voltage (V/cell) | min | | | | h | | | | | | | |
| | 10 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 5 | 10 | 20 | |
| 1.60 | 578.2 | 346.4 | 265.8 | 200.8 | 172.1 | 138.2 | 114.90 | 80.07 | 50.33 | 26.32 | 13.67 | |
| 1.65 | 575.5 | 344.8 | 264.7 | 199.7 | 171.0 | 137.1 | 114.30 | 79.98 | 50.27 | 26.25 | 13.62 | |
| 1.70 | 568.2 | 340.3 | 261.8 | 198.1 | 170.2 | 136.7 | 114.00 | 79.91 | 50.17 | 26.17 | 13.59 | |
| 1.75 | 562.8 | 338.3 | 260.1 | 197.2 | 169.5 | 136.3 | 113.80 | 79.64 | 50.00 | 26.12 | 13.57 | |

Performance Curve



Discharge performance



Charge performance

Sacred Sun Power Sources Co., Ltd.

No.1 Shengyang Road Qufu City, PRC
sales@sacredsun.cn

Sacred Sun Asia Pacific

No. 15, Yishun Industrial Street 1,
#01-17, WIN5, Singapore 768091
sales.asia@sacredsun.cn

Sacred Sun Europe SPRL

Schoenstraat 96-9140 Temse, Belgium
sales.eu@sacredsun.cn

Sacred Sun MEA FZE

S10122A1019 Jebel Ali, Dubai,
United Arab Emirates
sales.mea@sacredsun.cn