



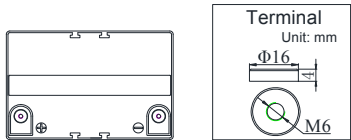
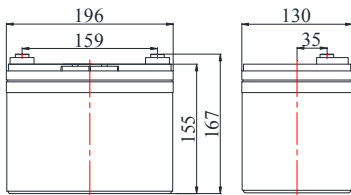
DATASHEET

### GENERAL FEATURES

- Environmentally friendly
- Wide operating temperature range
- Nano gel electrolyte and long Floating service Life
- Can be used at vertical or horizontal orientation
- High Power Density
- Low self discharge

### DIMENSIONS & WEIGHT

|                  |         |
|------------------|---------|
| Length(mm)       | 196±1   |
| Width(mm)        | 130±1   |
| Height(mm)       | 155±1   |
| Total Height(mm) | 167±1   |
| Weight(kg)       | 10.1±3% |



#### COMPLIED STANDARDS

|                 |              |
|-----------------|--------------|
| IEC 60896-21/22 | JIS C8704    |
| YD/T1360        | BS6290 part4 |
| GB/T 19638      | UL 1989      |

### APPLICATIONS

- Telecom Control Equipments
- UPS systems
- Communication Equipments
- Medical Equipments
- Emergency Power Systems
- Security Systems
- Cable TV
- Railway System



### TECHNICAL SPECIFICATIONS

Art. no: SAGS12-33

|                                                    |                            |                                                                |
|----------------------------------------------------|----------------------------|----------------------------------------------------------------|
| Nominal Voltage                                    |                            | 12V(6 cells per unit)                                          |
| Design Floating Life @25°C                         |                            | 12 Years                                                       |
| Nominal Capacity @25°C(10 hour rate@3.30A,10.80V)  |                            | 33Ah                                                           |
| Capacity @25°C                                     | 20 hour rate (1.77A,10.5V) | 35.4Ah                                                         |
|                                                    | 5 hour rate (5.8A,10.5V)   | 29.0Ah                                                         |
|                                                    | 1 hour rate (21.1A,9.6V)   | 21.1Ah                                                         |
| Internal Resistance                                | Full Charged Battery@25°C  | ≤11.5mΩ                                                        |
| Ambient Temperature                                | Discharge                  | -30°C~60°C                                                     |
|                                                    | Charge                     | -30°C~60°C                                                     |
|                                                    | Storage                    | -30°C~60°C                                                     |
| Max.Discharge Current@25°C                         |                            | 330A(5s)                                                       |
| Capacity affected by Temperature (10 hr Capacity ) | 40°C                       | 108%                                                           |
|                                                    | 25°C                       | 100%                                                           |
|                                                    | 0°C                        | 90%                                                            |
|                                                    | -15°C                      | 70%                                                            |
| Self-Discharge@25°C per Month                      |                            | 3%                                                             |
| Charge (Constant Voltage) @25°C                    | Standby Use                | Initial Charging Current Less than 8.25A<br>Voltage 13.6-13.8V |
|                                                    | Cycle Use                  | Initial Charging Current Less than 8.25A<br>Voltage 14.4-14.9V |

### BATTERY DISCHARGE TABLE

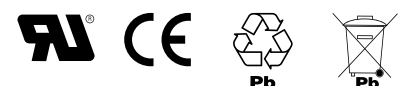
Discharge Constant Current per Cell (Amperes at 25°C)

| F.V/Time | 15min | 30min | 45min | 1h   | 2h   | 3h  | 5h  | 6h  | 8h  | 10h | 20h  |
|----------|-------|-------|-------|------|------|-----|-----|-----|-----|-----|------|
| 1.60V    | 59.6  | 35.1  | 26.6  | 21.1 | 12.4 | 9.1 | 6.1 | 5.3 | 4.2 | 3.5 | 1.83 |
| 1.67V    | 56.3  | 33.2  | 25.5  | 20.4 | 12.0 | 8.8 | 6.0 | 5.2 | 4.2 | 3.4 | 1.82 |
| 1.70V    | 52.8  | 32.3  | 24.6  | 19.6 | 11.6 | 8.6 | 5.9 | 5.1 | 4.1 | 3.4 | 1.79 |
| 1.75V    | 49.5  | 30.9  | 23.5  | 18.8 | 11.4 | 8.4 | 5.8 | 5.0 | 4.0 | 3.3 | 1.77 |
| 1.80V    | 46.4  | 29.7  | 22.7  | 18.2 | 10.9 | 8.1 | 5.7 | 5.0 | 4.0 | 3.3 | 1.75 |

Discharge Constant Power per Cell (Watts at 25°C)

| F.V/Time | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 6h   | 8h  | 10h | 20h |
|----------|-------|-------|-------|------|------|------|------|------|-----|-----|-----|
| 1.60V    | 113.9 | 69.7  | 50.5  | 40.4 | 23.5 | 17.4 | 11.8 | 10.3 | 8.2 | 6.8 | 3.6 |
| 1.67V    | 109.0 | 65.3  | 48.7  | 39.3 | 22.8 | 16.9 | 11.6 | 10.2 | 8.1 | 6.7 | 3.6 |
| 1.70V    | 101.5 | 63.9  | 47.2  | 38.0 | 22.3 | 16.5 | 11.5 | 10.0 | 8.0 | 6.6 | 3.5 |
| 1.75V    | 95.3  | 60.8  | 45.3  | 36.6 | 21.8 | 16.2 | 11.3 | 9.9  | 7.9 | 6.6 | 3.5 |
| 1.80V    | 89.4  | 58.3  | 43.8  | 35.4 | 21.1 | 15.7 | 11.1 | 9.7  | 7.8 | 6.5 | 3.5 |

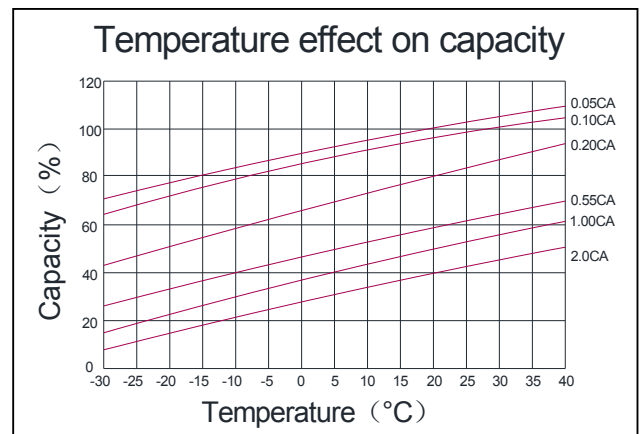
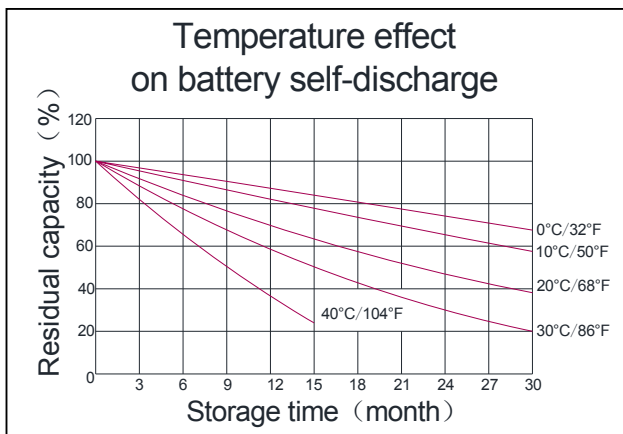
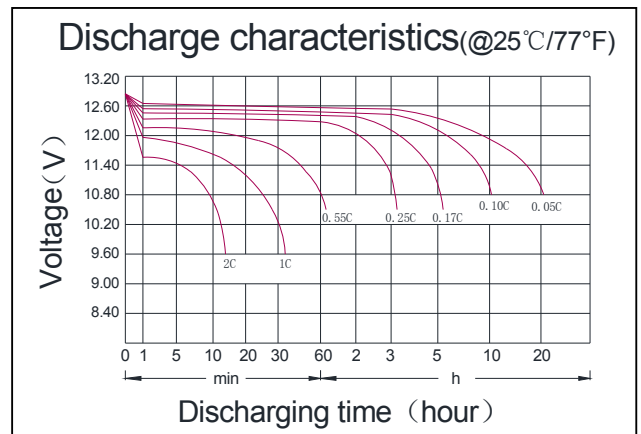
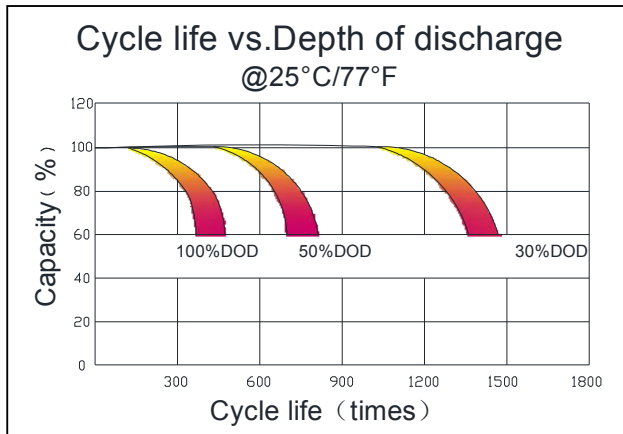
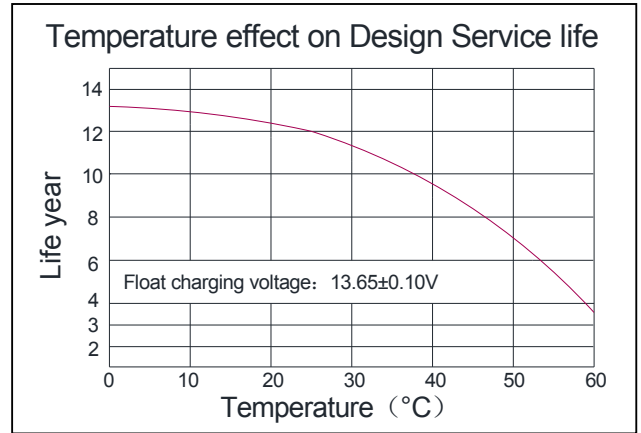
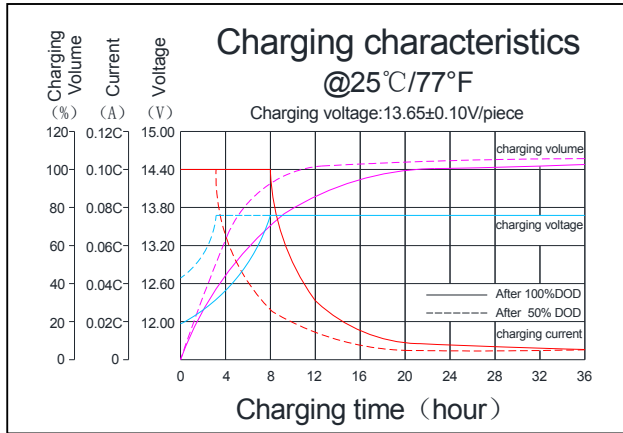
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DATASHEET

## PERFORMANCE CHARACTERISTICS



## BATTERY CONSTRUCTION

| Component | Positive plate                               | Negative plate                                            | Container & Cover      | Safety valve                        | Terminal                                | Separator                                            | Electrolyte                       | Pillar seal                 |
|-----------|----------------------------------------------|-----------------------------------------------------------|------------------------|-------------------------------------|-----------------------------------------|------------------------------------------------------|-----------------------------------|-----------------------------|
| Features  | Thick high Sn low Ca grid with special paste | Balanced Pb-Ca grid for improved recombination efficiency | ABS (UL94-V0 optional) | Flame Si-Rubbeand aging resistancer | Female Copper Insert M6(torque:4 ~6N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |

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