

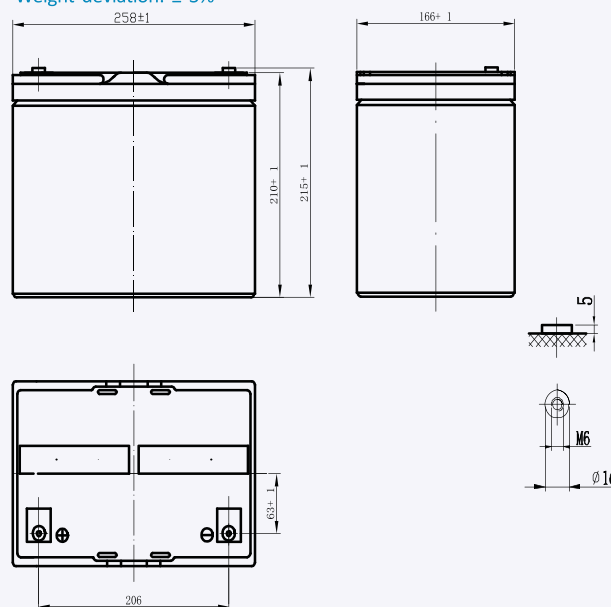


BATTERY SPECIFICATION

| | |
|---|--------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 10 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate (3.75A, 10.5V) | 75.0Ah |
| 10 hour rate (7.50A, 10.5V) | 74.1Ah |
| 5 hour rate (13.4A, 10.5V) | 67.0Ah |
| 1 hour rate (51.2A, 9.6V) | 51.2Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | ≤6.5mOhms |
| Self-Discharge | |
| 3% of capacity declined per month at 20°C(average) | |
| Operating Temperature Range | |
| Discharge | -20~60°C |
| Charge | -10~60°C |
| Storage | -20~60°C |
| Max. Discharge Current 77°F(25°C) | 700(5s) |
| Short Circuit Current | 1800A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 2.40-2.45VPC |
| Maximum charging current | 22.5A |
| Temperature compensation | -30mV/°C |
| Standby use | 13.6-13.8V |
| Temperature compensation | -20mV/°C |

DIMENSIONS AND WEIGHT

| | |
|--------------------------|------------|
| Length(mm / inch) | 258/ 10.1 |
| Width(mm / inch) | 166/ 6.53 |
| Height(mm / inch) | 210 / 8.26 |
| Total Height(mm / inch) | 215 / 8.46 |
| Approx. Weight(Kg / lbs) | 24/52.9 |
| * Weight deviation: ± 3% | |



BATTERY CONSTRUCTION

| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|-------------|------------|---------------|
| Raw material | Lead dioxide | Lead | ABS | ABS | Rubber | Copper/Plug | Fiberglass | Sulfuric acid |

DISCHARGE CONSTANT CURRENT (AMPERES AT 77°F/25°C)

| End Point Volts/Cell | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 171 | 133 | 79.8 | 49.5 | 21.6 | 14.2 | 7.54 | 3.94 |
| 1.65V | 162 | 127 | 76.3 | 46.8 | 21.2 | 14.0 | 7.51 | 3.90 |
| 1.70V | 152 | 118 | 75.1 | 46.2 | 20.8 | 13.8 | 7.48 | 3.85 |
| 1.75V | 145 | 114 | 71.8 | 44.6 | 20.4 | 13.4 | 7.45 | 3.80 |
| 1.80V | 133 | 109 | 71.3 | 42.8 | 19.6 | 13.2 | 7.41 | 3.75 |

DISCHARGE CONSTANT POWER (WATTS AT 77°F/25°C)

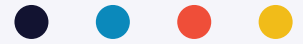
| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 301 | 239 | 154 | 118 | 94.3 | 53.4 | 39.8 | 26.7 |
| 1.65V | 288 | 234 | 149 | 116 | 92.2 | 52.1 | 38.8 | 26.5 |
| 1.70V | 278 | 230 | 141 | 109 | 88.5 | 50.9 | 38.5 | 25.9 |
| 1.75V | 263 | 216 | 139 | 109 | 85.2 | 49.7 | 37.9 | 25.9 |
| 1.80V | 251 | 206 | 138 | 104 | 82.9 | 49.0 | 37.6 | 25.7 |

(Note)The above characteristics data are average values obtained within threecharge/discharge cycles. All data shall be changed without notice, Senzer reserves the right to explain and update the information.

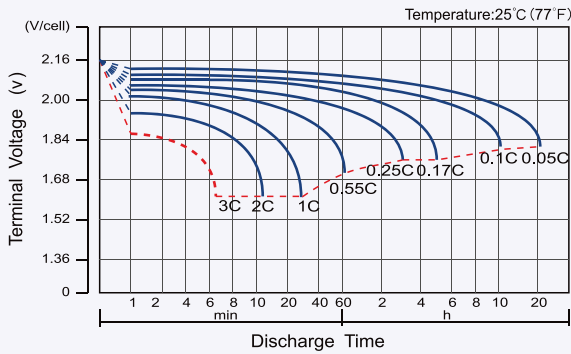
GENERAL FEATURES

Senzer deep-cycle batteries typically feature thick plates and high-density active material. The thick battery plates allows more energy storing within the battery plates and releasing during slow discharge. The high-density active material remains within the batteries' plate/grid structure longer, resisting the normal degradation found in cycling conditions. Battery are typically used where the battery is discharged to great extent and then recharged. Deep Cycle refers to applications that typically discharge 60 to 70% or more of the battery capacity. Superior Deep Cycle Design. Thick Plates and High-density Active Material. Longer Life in Deep Cycle Applications.

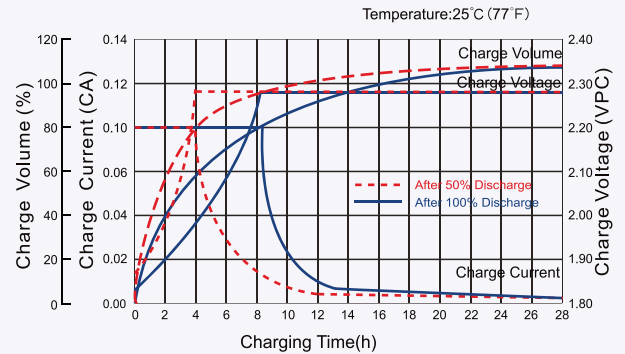




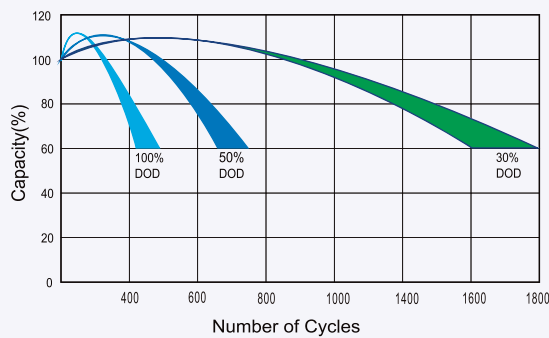
DISCHARGE CHARACTERISTICS CURVE



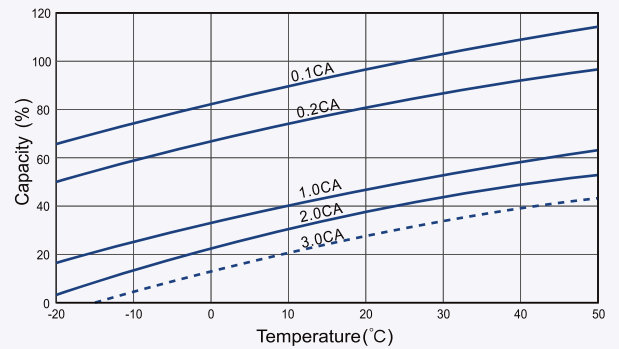
CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



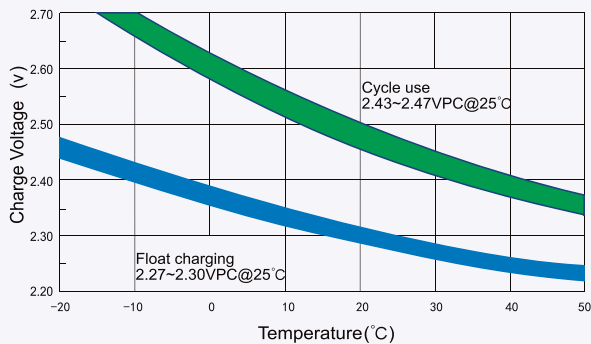
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



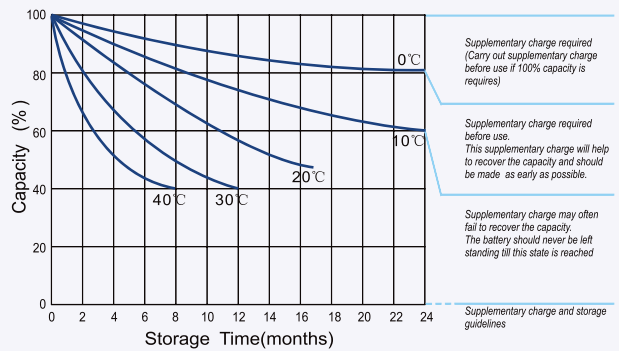
TEMPERATURE EFFECTS ON CAPACITY



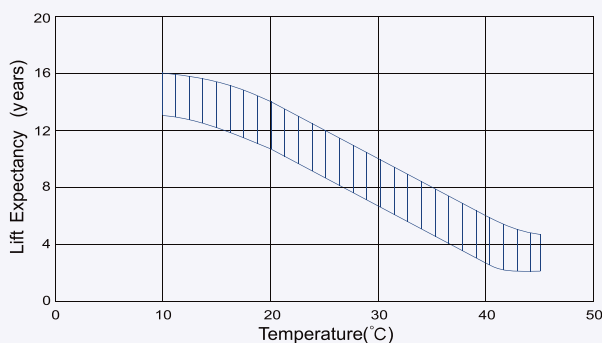
RELATIONSHIP BETWEEN CHARGING VOLTAGE AND TEMPERATURE



STORAGE CHARACTERISTICS



EFFECT OF TEMPERATURE ON LONG TERM LIFE



LIFE CHARACTERISTICS OF STANDBY USER

