

### Specification

|                                  |                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal Voltage                  | 2V                                                                                                                                                                       |
| Nominal Capacity(10HR)           | 2500.0AH (1.8V/cell,20°C)                                                                                                                                                |
| Dimension                        | Length 487±3mm (19.2 inches)                                                                                                                                             |
|                                  | Width 212±3mm (8.35 inches)                                                                                                                                              |
|                                  | Container Height 772±3mm (30.4 inches)                                                                                                                                   |
|                                  | Total Height (with Terminal) 827±3mm (32.56 inches)                                                                                                                      |
| Approx Weight                    | Without Electrolyte 139.4 kg (306.68lbs)                                                                                                                                 |
|                                  | With Electrolyte 189.4 kg (416.68lbs)                                                                                                                                    |
| Container Material               | SAN transparent container                                                                                                                                                |
| Rated Capacity                   | 2500.0 AH/250.0A (10hr, 1.80V/cell, 20°C/68°F)                                                                                                                           |
|                                  | 2220.5 AH/444.1A (5hr, 1.75V/cell, 20°C/68°F)                                                                                                                            |
|                                  | 1927.5 AH/642.5A (3hr, 1.75V/cell, 20°C/68°F)                                                                                                                            |
|                                  | 1427.5 AH/1427.5A (1hr, 1.60V/cell, 20°C/68°F)                                                                                                                           |
| Max. Discharge Current           | 20000A (5s)                                                                                                                                                              |
| Internal Resistance              | Approx 0.13mΩ                                                                                                                                                            |
| Operating Temp.Range             | Discharge : -15~50°C (5~122°F)                                                                                                                                           |
|                                  | Charge : 0~40°C (32~104°F)                                                                                                                                               |
|                                  | Storage : -15~40°C (5~104°F)                                                                                                                                             |
| Type and number of poles         | M8                                                                                                                                                                       |
| Charging                         | Floating voltage: 2.23V~2.25V at 20°C(68°F)Temp.                                                                                                                         |
|                                  | Boost charge: 2.30V~2.40V at 20°C(68°F)Temp.                                                                                                                             |
|                                  | Charging current(max.): 0.1CA                                                                                                                                            |
|                                  | Temp.Coefficient -3mV/°C                                                                                                                                                 |
| Capacity affected by Temperature | 40°C (104°F) 103%                                                                                                                                                        |
|                                  | 25°C ( 77°F) 100%                                                                                                                                                        |
|                                  | 0°C ( 32°F) 86%                                                                                                                                                          |
| Self Discharge                   | Leoch OPzS batteries may be stored for up to 6 months at 20°C(68°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |



### Applications

- ◆ Telecommunications.
- ◆ Radio and cellular telephone relay stations.
- ◆ Emergency lighting systems.
- ◆ Power stations, Conventional power stations,
- ◆ alternative power (solar, wind).
- ◆ Large UPS and computer back-up.
- ◆ Railway signalling.
- ◆ Maritime standby power on ships and ashore.
- ◆ Standby power.
- ◆ Buoy lighting.
- ◆ Long service life, designed life 15-20 years.

### Constant Current Discharge (Amperes) at 20 °C (68°F)

| F.V/Time   | 30min  | 45min  | 1h     | 1.5h   | 2h    | 3h    | 4h    | 5h    | 6h    | 8h    | 10h   | 20h   |
|------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V/cell | 1895.0 | 1646.7 | 1427.5 | 1125.0 | 930.0 | 695.0 | 558.8 | 472.5 | 409.0 | 323.6 | 267.4 | 145.0 |
| 1.65V/cell | 1780.0 | 1583.3 | 1380.0 | 1096.7 | 908.8 | 683.3 | 550.6 | 466.2 | 403.4 | 319.7 | 264.2 | 143.6 |
| 1.70V/cell | 1690.0 | 1493.3 | 1327.5 | 1061.7 | 887.5 | 663.3 | 538.1 | 456.1 | 395.8 | 314.1 | 259.9 | 141.6 |
| 1.75V/cell | 1585.0 | 1423.3 | 1260.0 | 1011.7 | 850.0 | 642.5 | 521.9 | 444.1 | 386.3 | 308.9 | 255.5 | 139.3 |
| 1.80V/cell | 1410.0 | 1283.3 | 1160.0 | 948.3  | 798.8 | 610.0 | 499.6 | 425.7 | 372.1 | 300.4 | 250.0 | 136.6 |
| 1.85V/cell | 1125.0 | 1063.3 | 992.5  | 843.3  | 725.0 | 558.3 | 462.3 | 399.0 | 350.4 | 285.6 | 239.4 | 131.4 |

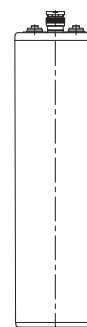
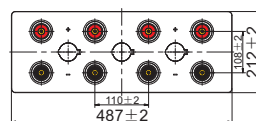
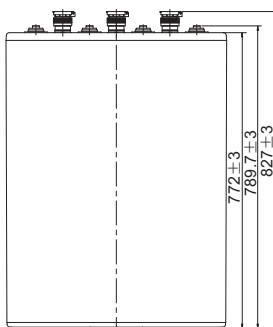
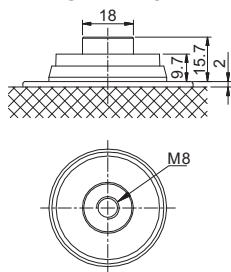
### Constant Power Discharge (Watts) at 20 °C (68°F)

| F.V/Time   | 30min  | 45min  | 1h     | 1.5h   | 2h     | 3h     | 4h     | 5h    | 6h    | 8h    | 10h   | 20h   |
|------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1.60V/cell | 3234.8 | 2881.7 | 2534.5 | 2022.4 | 1691.2 | 1272.9 | 1032.3 | 879.0 | 765.8 | 608.6 | 504.8 | 274.9 |
| 1.65V/cell | 3104.5 | 2803.6 | 2470.5 | 1981.4 | 1660.8 | 1257.8 | 1022.4 | 871.7 | 759.1 | 604.2 | 501.4 | 273.6 |
| 1.70V/cell | 2987.9 | 2672.0 | 2394.4 | 1930.9 | 1629.0 | 1226.9 | 1002.6 | 856.2 | 747.2 | 596.0 | 494.8 | 270.8 |
| 1.75V/cell | 2849.5 | 2573.9 | 2294.2 | 1853.2 | 1571.6 | 1195.8 | 977.3  | 837.5 | 731.6 | 588.1 | 488.8 | 267.5 |
| 1.80V/cell | 2569.3 | 2356.1 | 2139.2 | 1757.3 | 1490.0 | 1144.0 | 941.2  | 806.7 | 709.1 | 575.1 | 480.8 | 263.8 |
| 1.85V/cell | 2084.6 | 1980.6 | 1857.2 | 1584.0 | 1367.4 | 1058.3 | 879.7  | 762.6 | 673.1 | 550.9 | 463.9 | 255.8 |

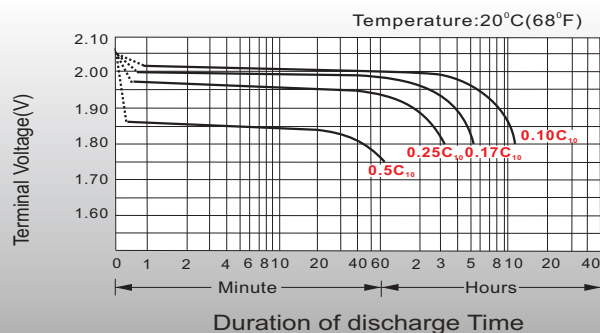
Specifications subject to change without notice.

## Dimensions

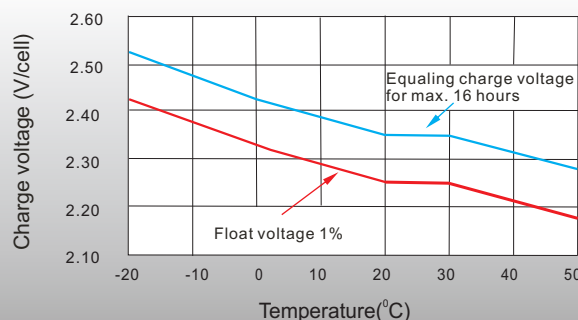
### Terminal



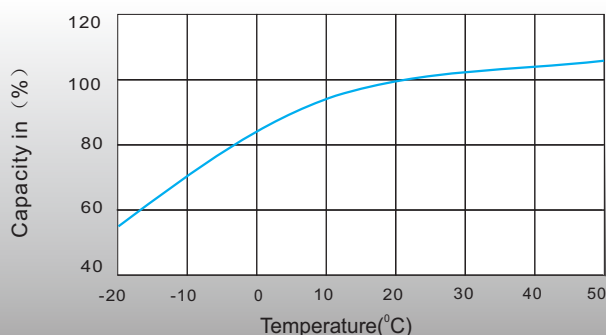
## Discharge Characteristics



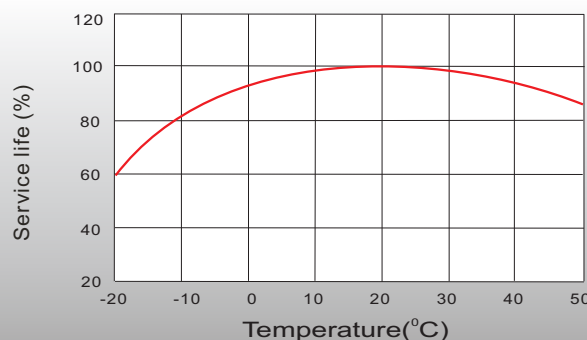
## Charge voltage Vs ambient temperature curve



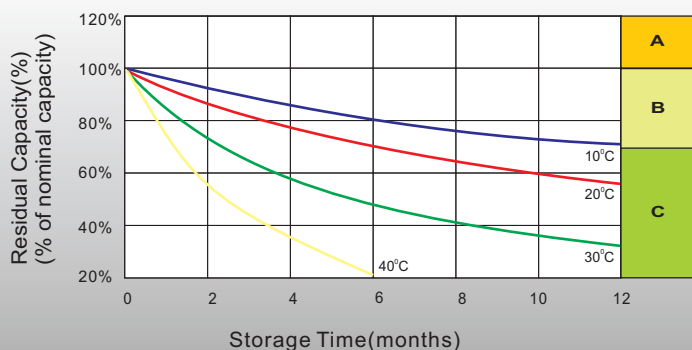
## Discharge capacity Vs Ambient temperature curve (I10A)



## Relation curves of service life and ambient temperature



## Self Discharge Characteristics



- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
  1. Charged for above 3 days at limited current 0.1CA and constant voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 0.1CA and constant voltage 2.45V/cell.
  3. Charged for 8~10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.