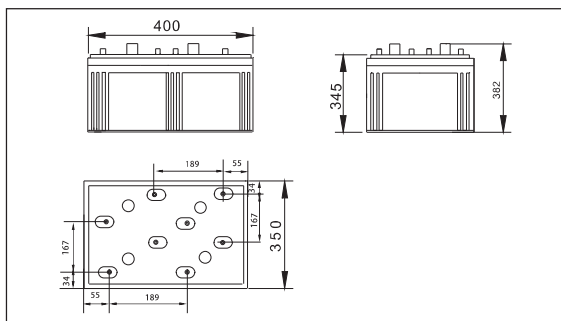


## NP2-1500Ah 2V1500Ah

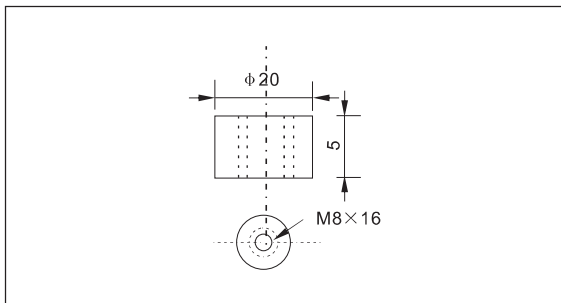
### Specifications

|                               |              |                    |
|-------------------------------|--------------|--------------------|
| Nominal Voltage               |              | 2V                 |
| Rated capacity (10 hour rate) |              | 1500Ah             |
| Dimensions                    | Length       | 400±2mm(15.75inch) |
|                               | Width        | 350±2mm(13.78inch) |
|                               | Height       | 345±2mm(13.58inch) |
|                               | Total Height | 382±2mm(15.04inch) |
| Approx. Weight                |              | 93kg(205lbs)±3%    |

### Outer dimensions (mm)



### Terminal Type (mm)



### Construction

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

### Constant Current Discharge Characteristics Unit:A(25℃,77°F)

| F.V/Time | 30min | 60min | 2h  | 3h  | 4h  | 5h  | 6h  | 8h  | 10h | 20h  | 24h  |
|----------|-------|-------|-----|-----|-----|-----|-----|-----|-----|------|------|
| 1.60V    | 1365  | 945   | 553 | 398 | 318 | 274 | 236 | 186 | 153 | 80.9 | 69.3 |
| 1.65V    | 1338  | 917   | 549 | 395 | 316 | 272 | 234 | 185 | 153 | 80.8 | 69.2 |
| 1.70V    | 1297  | 888   | 545 | 393 | 314 | 270 | 233 | 184 | 153 | 80.5 | 69.0 |
| 1.75V    | 1265  | 860   | 536 | 390 | 312 | 269 | 231 | 182 | 152 | 80.1 | 68.6 |
| 1.80V    | 1219  | 832   | 523 | 378 | 303 | 260 | 224 | 177 | 151 | 79.5 | 68.1 |

### Constant Power Discharge Characteristics Unit:A(25℃,77°F)

| F.V/Time | 30min | 60min | 2h   | 3h  | 4h  | 5h  | 6h  | 8h  | 10h | 20h | 24h |
|----------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1.60V    | 2553  | 1796  | 1067 | 780 | 624 | 540 | 464 | 370 | 305 | 162 | 139 |
| 1.65V    | 2501  | 1742  | 1060 | 775 | 620 | 536 | 461 | 368 | 305 | 162 | 139 |
| 1.70V    | 2425  | 1688  | 1051 | 770 | 616 | 533 | 458 | 365 | 304 | 161 | 139 |
| 1.75V    | 2366  | 1634  | 1035 | 764 | 612 | 529 | 455 | 363 | 302 | 160 | 138 |
| 1.80V    | 2279  | 1580  | 1009 | 741 | 593 | 513 | 441 | 352 | 300 | 159 | 137 |

Note: The above characteristics data can be obtained within three charge or discharge cycles.

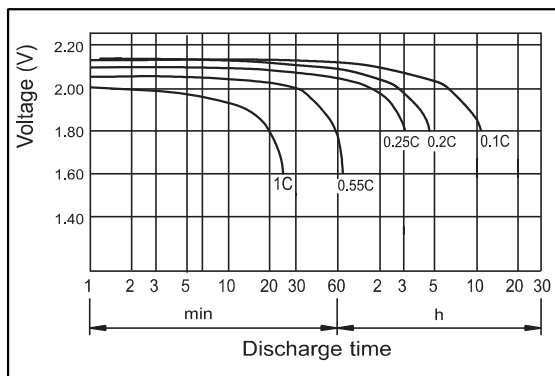


### Characteristics

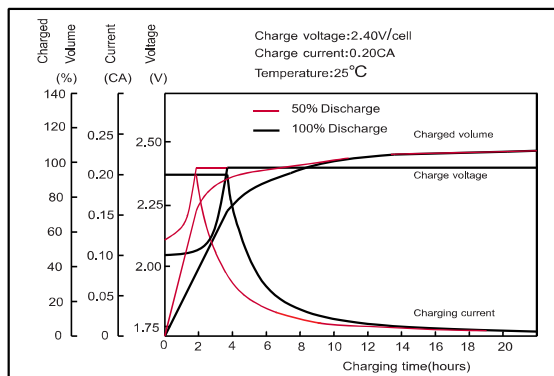
|                                         |            |                                                   |
|-----------------------------------------|------------|---------------------------------------------------|
| Capacity (25℃)                          | 10HR(1.8V) | 1500Ah                                            |
|                                         | 3HR(1.80V) | 1125Ah                                            |
|                                         | 1HR(1.75V) | 825Ah                                             |
| Terminal type                           |            | T20                                               |
| Internal resistance (Fully charged,25℃) |            | Approx.0.2m Ω                                     |
| Capacity affected by temperature (10HR) | 40℃        | 102%                                              |
|                                         | 25℃        | 100%                                              |
|                                         | 0℃         | 85%                                               |
|                                         | -15℃       | 65%                                               |
| Self-discharge (25℃)                    | 3month     | Remaining Capacity:91%                            |
|                                         | 6month     | Remaining Capacity:82%                            |
|                                         | 12month    | Remaining Capacity:65%                            |
| Nominal operating temperature           |            | 25℃ ±3℃(77°F ±5°F)                                |
| Operating temperature range             | Discharge  | -15℃~50℃(5°F~122°F)                               |
|                                         | Charge     | -10℃~50℃(14°F~122°F)                              |
|                                         | Storage    | -20℃~50℃(-4°F~122°F)                              |
| Float charging voltage(25℃)             |            | 2.25 to 2.30V<br>Temperature compensation: -3mV/℃ |
| Cyclic charging voltage(25℃)            |            | 2.40 to 2.50V<br>Temperature compensation: -5mV/℃ |
| Maximum charging current                |            | 300A                                              |
| Maximum discharge current               |            | 7500A(5 sec.)                                     |
| Designed floating life(20℃)             |            | 15 years                                          |

# NP2-1500Ah 2V1500Ah

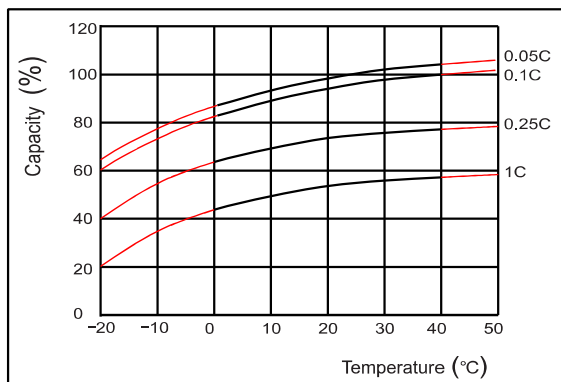
## ● Discharge characteristics(25°C)



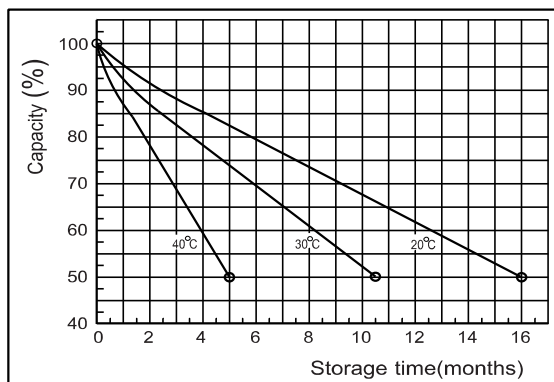
## ● Charging characteristics



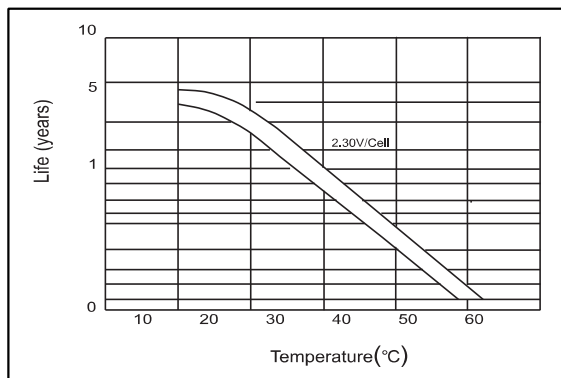
## ● Effect of Temperature on Capacity



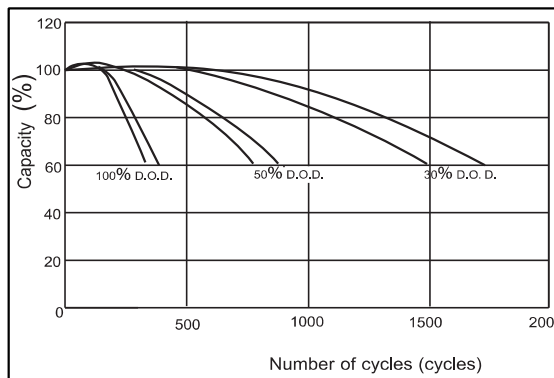
## ● Self-discharge characteristics



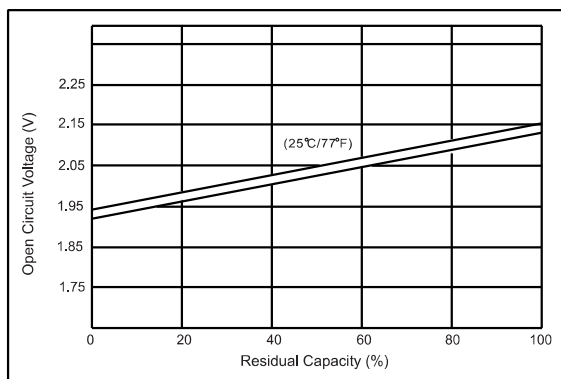
## ● Temperature effects on float life



## ● Cycle service life in relation to depth of discharge



## ● The relationship for OCV and Capacity (25°C)



## ● The relationship for Charging voltage and Temperature

