# Valve Regulated Lead Acid Battery

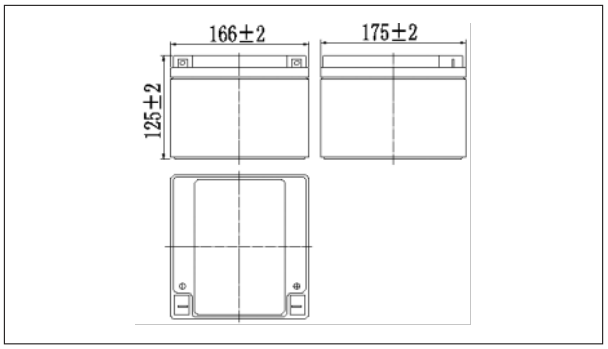
## PMA12-26 12V26Ah



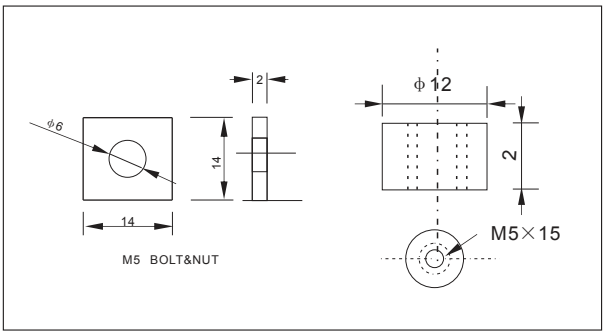

## Specifications

| | | |
|---|---|---|
| Nominal Voltage | | 12V |
| Rated capacity (20 hour rate) | | 26Ah |
| Dimensions | Length | 166±2mm(6.54inch) |
| | Width | 175±2mm(6.89inch) |
| | Height | 125±2mm(4.92inch) |
| | Total Height | 125±2mm(4.92inch) |
| Approx. Weight | | 7.9kg(17.4lbs)±4% |

## Outer dimensions (mm)




## Terminal Type (mm)




## Characteristics

| | | |
|---|---|---|
| Capacity (25℃) | 20HR(10.5V) | 26Ah |
| | 10HR(10.5V) | 24Ah |
| | 1HR(9.60V) | 16Ah |
| Terminal type | | T4/T12 |
| Internal resistance (Fully charged,25℃) | | Approx.12m Ω |
| Capacity affected by temperature (20HR) | 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℉ ±5℉) |
| Operating temperature range | Discharge | -15℃~50℃(5℉~122℉) |
| | Charge | -10℃~50℃(14℉~122℉) |
| | Storage | -20℃~50℃(-4℉~122℉) |
| Float charging voltage(25℃) | | 13.50 to 13.80V Temperature compensation: -18mV/℃ |
| Cyclic charging voltage(25℃) | | 14.50 to 15.00V Temperature compensation: -30mV/℃ |
| Maximum charging current | | 7.8A |
| Maximum discharge current | | 360A(5 sec.) |
| Designed floating life(20℃) | | 5 years |

## 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.V/Time | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.60V | 97.3 | 61.7 | 48.2 | 27.1 | 16.7 | 9.32 | 6.44 | 5.33 | 4.53 | 2.46 | 1.32 |
| 9.90V | 94.4 | 59.8 | 47.0 | 26.6 | 16.4 | 9.26 | 6.41 | 5.30 | 4.51 | 2.45 | 1.31 |
| 10.2V | 90.5 | 57.3 | 45.3 | 25.8 | 16.0 | 9.18 | 6.36 | 5.26 | 4.48 | 2.44 | 1.31 |
| 10.5V | 86.6 | 54.9 | 43.7 | 25.2 | 15.7 | 9.04 | 6.32 | 5.23 | 4.45 | 2.43 | 1.30 |
| 10.8V | 81.8 | 51.8 | 41.4 | 24.2 | 15.2 | 8.81 | 6.13 | 5.07 | 4.31 | 2.38 | 1.27 |

## Constant Power Discharge Characteristics Unit:W(25℃,77℉)

| F.V/Time | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.60V | 1086 | 696 | 549 | 311 | 193 | 109 | 76.6 | 63.5 | 54.1 | 29.5 | 15.8 |
| 9.90V | 1054 | 675 | 536 | 305 | 190 | 108 | 76.1 | 63.1 | 53.8 | 29.4 | 15.8 |
| 10.2V | 1010 | 647 | 516 | 295 | 186 | 107 | 75.6 | 62.7 | 53.5 | 29.3 | 15.7 |
| 10.5V | 967 | 619 | 498 | 288 | 182 | 106 | 75.1 | 62.2 | 53.1 | 29.1 | 15.6 |
| 10.8V | 912 | 584 | 472 | 278 | 176 | 103 | 72.8 | 60.4 | 51.5 | 28.5 | 15.3 |

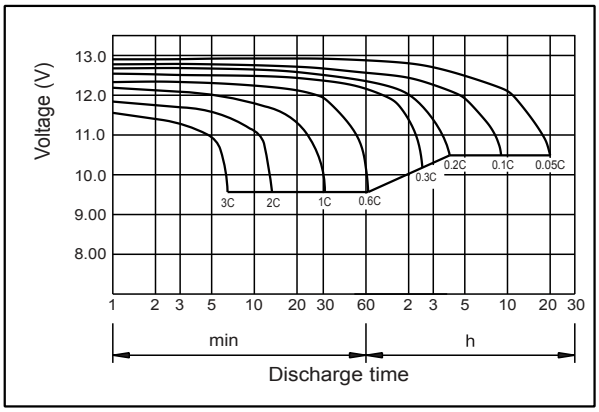
Note: The above characteristics data can be obtained within three charge or discharge cycles.

POWERMAX

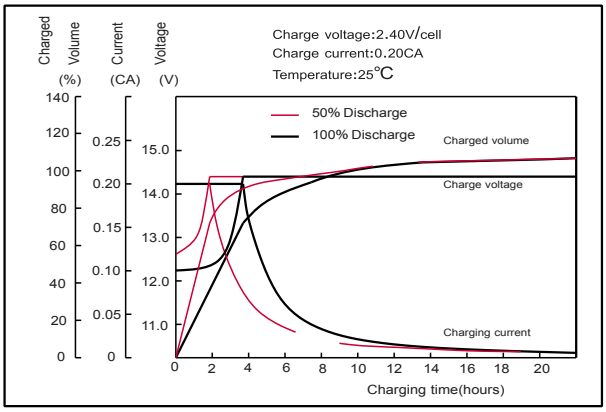
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## PMA12-26 12V26Ah

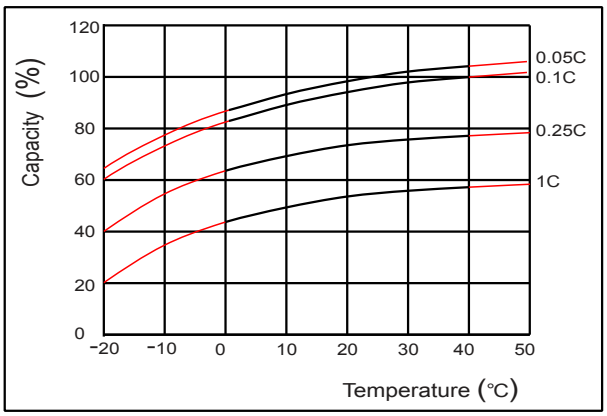
### Discharge Characteristics 25℃



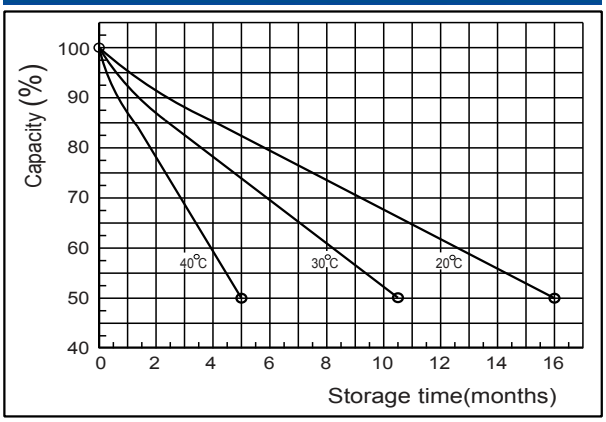

### Charging Characteristics 25℃



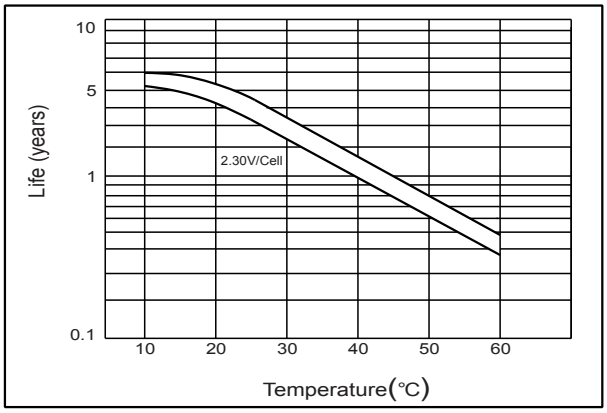

### Temperature Effects on Capacity



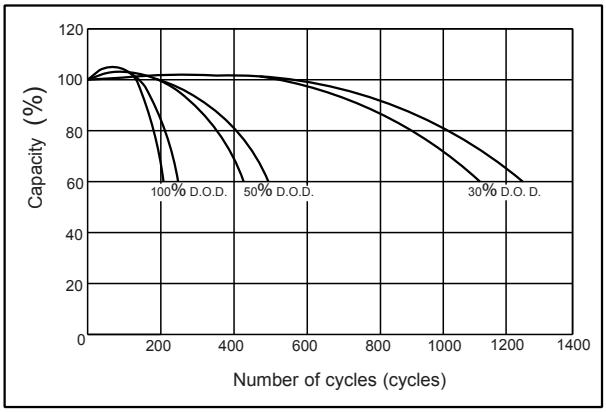

### Self-discharge characteristics



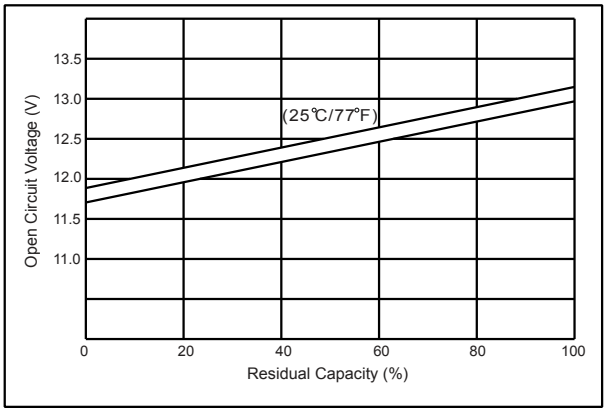

### Floating life on temperature



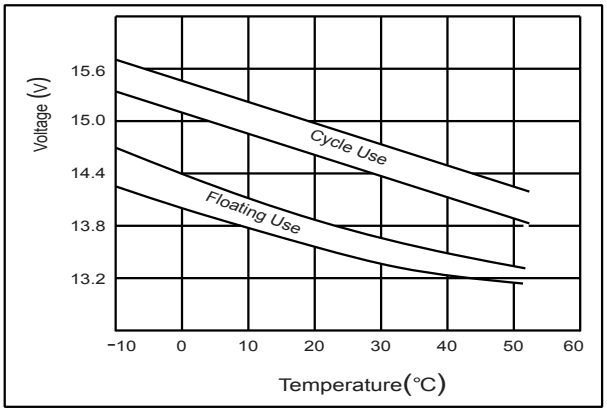

### Cycle life on D.O.D(25℃)




### The relationship for OCV and Capacity (25℃)




### The relationship for Charging voltage and Temperature




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