



SMARTRONICS

MH61491

12-26H

12V 26Ah

Valve Regulated Lead Acid Battery / AGM Technology

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

| | | |
|------------|------------------------------------|---------|
| 20 hr rate | (1.3A to 1.80V/cell,25°C (77°F)) | 26.0AH |
| 10 hr rate | (2.47A to 1.80V/cell,25°C (77°F)) | 24.70AH |
| 5 hr rate | (4.42A to 1.750V/cell,25°C (77°F)) | 22.1AH |
| 3C | (78A to 1.75V/cell,25°C (77°F)) | 9.10AH |
| 1C | (26A to 1.60V/cell,25°C (77°F)) | 13.87AH |

Weight Approx. 8 kg (17.6lbs)

Internal Resistance Approx. 11mΩ

Maximum Discharge Current 390A (5sec)

Charging Methods at 25°C (77°F)

Cycle use:

| | |
|------------------------------------|------------|
| Initial Charging Current less than | 8.7A |
| Charging Voltage | 14.4V~15.0 |
| Coefficient | -30mV/°C |

Standby use:

| | |
|--|-------------|
| No limit on Initial Charging Current Voltage | |
| Charging Voltage | 13.5V~13.8V |
| Coefficient -20.0mV/°C | -20mV/°C |

Operating Temperature Range

| | |
|---------------|--------------------|
| Charge | -15~40°C (5~104°F) |
| Discharge | -15~50°C (5~122°F) |
| Storage | -15~40°C (5~104°F) |
| Case Material | ABS UL94 HB |
| Terminal | F6 |

Description of torque value of hard ware for the terminals

| | |
|--------------------------------|----------------------|
| Recommended torque value | M6: 7 N-m (71kgf-cm) |
| Maximum allowable torque value | M6: 9 N-m (92kgf-cm) |

Self-Discharge

This series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



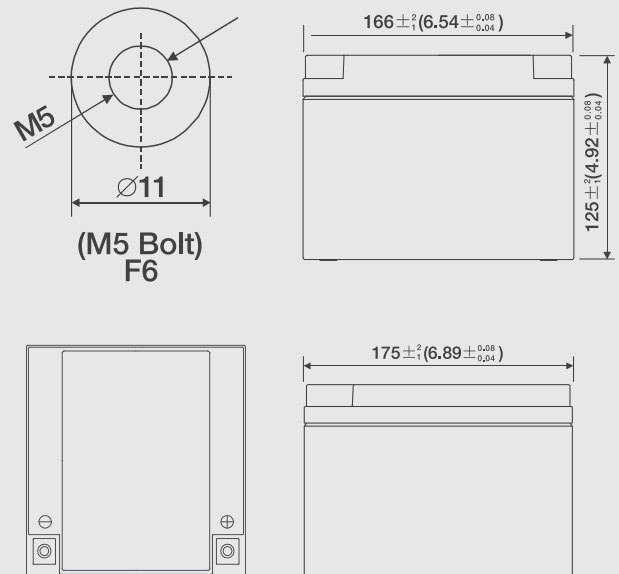
P# 12-26H 203

*H: High performance series

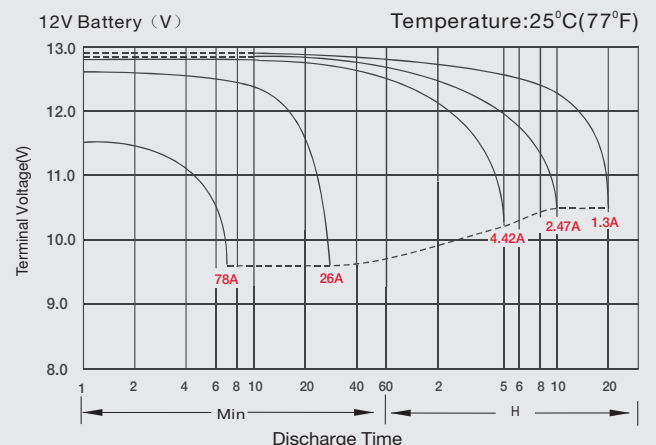
For: Backup Power i.e. UPS, ...

Design life: 3-5 years (Ambient Temperature 20°C)

Dimensions



Discharge Characteristics



Constant Current Discharge (Amperes) at 25 °C (77°F)

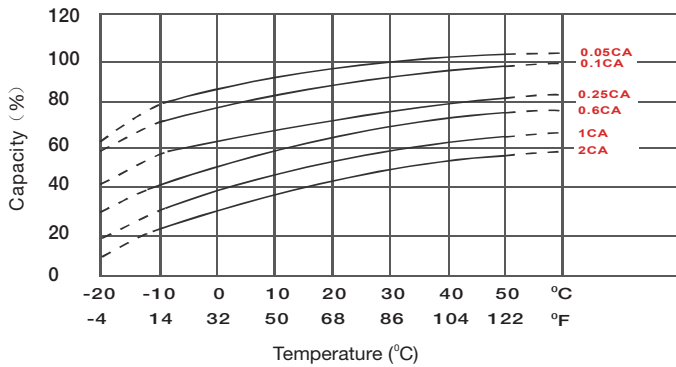
| F.V (V/cell) | Time | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|--------------|------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.85 | | 70.2 | 45.8 | 37.9 | 20.8 | 14.5 | 7.65 | 6.21 | 4.97 | 4.22 | 2.48 | 1.29 |
| 1.80 | | 82.3 | 50.4 | 41.1 | 23.2 | 15.0 | 7.96 | 6.41 | 5.07 | 4.35 | 2.56 | 1.33 |
| 1.75 | | 90.7 | 54.6 | 43.7 | 24.7 | 15.3 | 8.08 | 6.50 | 5.14 | 4.40 | 2.6 | 1.35 |
| 1.70 | | 96.1 | 58.8 | 46.2 | 25.6 | 15.5 | 8.19 | 6.53 | 5.20 | 4.44 | 2.61 | 1.36 |
| 1.65 | | 101 | 62.4 | 48.2 | 26.9 | 15.7 | 8.26 | 6.58 | 5.25 | 4.47 | 2.63 | 1.38 |
| 1.60 | | 105 | 65.6 | 49.8 | 27.7 | 15.8 | 8.31 | 6.62 | 5.28 | 4.49 | 2.64 | 1.39 |

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

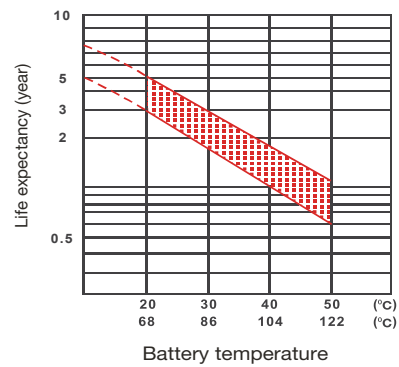
| F.V (V/cell) | Time | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|--------------|------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.85 | | 114 | 88.2 | 70.2 | 41.0 | 27.0 | 14.6 | 12.2 | 9.82 | 8.47 | 4.93 | 2.53 |
| 1.80 | | 129 | 99.7 | 76.5 | 44.5 | 28.5 | 15.4 | 12.7 | 10.2 | 8.70 | 5.12 | 2.62 |
| 1.75 | | 142 | 106 | 80.8 | 46.5 | 29.3 | 15.9 | 12.9 | 10.4 | 8.82 | 5.22 | 2.68 |
| 1.70 | | 155 | 111 | 84.3 | 48.0 | 30.0 | 16.2 | 13.1 | 10.5 | 8.93 | 5.30 | 2.73 |
| 1.65 | | 165 | 117 | 88.2 | 49.5 | 30.5 | 16.5 | 13.2 | 10.6 | 9.02 | 5.35 | 2.77 |
| 1.60 | | 177 | 122 | 91.3 | 50.3 | 30.8 | 16.7 | 13.3 | 10.7 | 9.05 | 5.38 | 2.78 |

Specifications subject to change without notice.

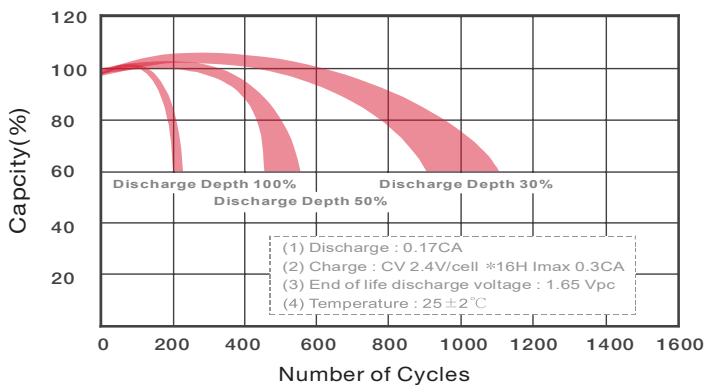
Temperature Effects in Relation to Battery Capacity



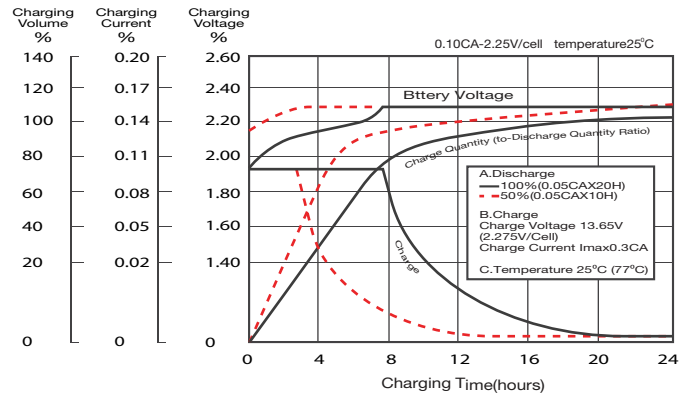
Effect of Temperature on Long Term Float Life



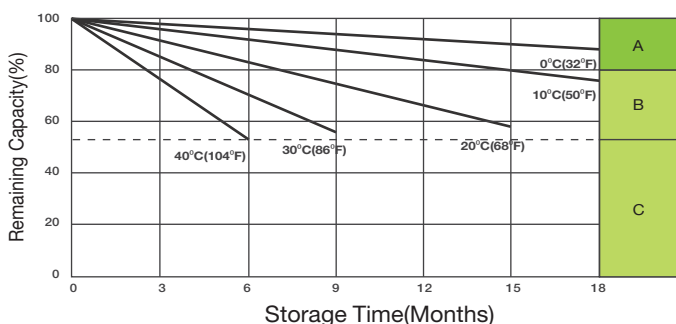
Cycle Life in Relation to Depth of Discharge



Float Charging Characteristics



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 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8~10hours 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.