# UP SERIES-AGM Battery

## UP0.8-12


| Specification | | |
|---|---|---|
| Nominal Voltage | 12V | |
| Nominal Capacity (20HR) | 0.8AH | |
| Dimension | Length | 96±1mm (3.78 inches) |
| | Width | 25±1mm (0.98 inches) |
| | Container Height | 62±1mm (2.44 inches) |
| | Total Height (with Terminal) | 62±1mm (2.44 inches) |
| Approx Weight | Approx 0.35 kg (0.77lbs) | |
| Terminal | / | |
| Container Material | ABS | |
| Rated Capacity | 0.80 AH/0.04A | (20hr, 1.80V/cell, 25ºC/77ºF) |
| | 0.74 AH/0.074A | (10hr, 1.80V/cell, 25ºC/77ºF) |
| | 0.68 AH/0.136A | (5hr, 1.75V/cell, 25ºC/77ºF) |
| | 0.612 AH/0.204A | (3hr, 1.75V/cell, 25ºC/77ºF) |
| | 0.502 AH/0.502A | (1hr, 1.60V/cell, 25ºC/77ºF) |
| Max. Discharge Current | 12A (5s) | |
| Internal Resistance | Approx 150mΩ | |
| Operating Temperature Range | Discharge: -15~50ºC (5~122ºF) | |
| | Change : 0~40ºC (32~104ºF) | |
| | Storage : -15~40ºC (5~104ºF) | |
| Nominal Operating Temperature Range | 25±3ºC (77±5ºF) | |
| Cycle Use | Initial Charging Current less than 0.24A.Voltage. 14.4V~15.0V at 25ºC(77ºF)Temp. Coefficient -30mV/ºC | |
| Standby Use | No limit on Initial Charging Current Voltage. 13.5V~13.8V at 25ºC(77ºF)Temp. Coefficient -20mV/ºC | |
| Capacity affected by Temperature | 40ºC (104ºF) 103% | |
| | 25ºC (77ºF) 100% | |
| | 0ºC (32ºF) 86% | |
| Self Discharge | Batteries may be stored for up to 6 months at 25ºC (77ºF) and then a freshening charge is requiered. | |

**Constant Current Discharge (Amperes) at 25ºC (77ºF)**

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1.85V/cell** | 1.52 | 1.17 | 0.97 | 0.84 | 0.65 | 0.48 | 0.402 | 0.238 | 0.186 | 0.151 | 0.123 | 0.107 | 0.086 | 0.072 | 0.0396 |
| **1.80V/cell** | 2.04 | 1.49 | 1.17 | 0.99 | 0.76 | 0.56 | 0.451 | 0.260 | 0.200 | 0.162 | 0.132 | 0.115 | 0.092 | 0.074 | 0.0400 |
| **1.75V/cell** | 2.31 | 1.64 | 1.28 | 1.07 | 0.79 | 0.58 | 0.471 | 0.269 | 0.204 | 0.165 | 0.136 | 0.118 | 0.093 | 0.076 | 0.0404 |
| **1.70V/cell** | 2.54 | 1.79 | 1.37 | 1.12 | 0.83 | 0.60 | 0.486 | 0.276 | 0.210 | 0.170 | 0.139 | 0.120 | 0.095 | 0.078 | 0.0411 |
| **1.65V/cell** | 2.80 | 1.93 | 1.45 | 1.19 | 0.87 | 0.61 | 0.498 | 0.280 | 0.219 | 0.175 | 0.143 | 0.123 | 0.096 | 0.080 | 0.0417 |
| **1.60V/cell** | 3.09 | 2.10 | 1.55 | 1.27 | 0.92 | 0.64 | 0.502 | 0.292 | 0.225 | 0.181 | 0.148 | 0.126 | 0.097 | 0.080 | 0.0419 |

**Constant Power Discharge (Watts) at 25ºC (77ºF)**

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1.85V/cell** | 2.79 | 2.16 | 1.81 | 1.58 | 1.23 | 0.92 | 0.776 | 0.462 | 0.363 | 0.296 | 0.242 | 0.211 | 0.171 | 0.143 | 0.078 |
| **1.80V/cell** | 3.70 | 2.73 | 2.16 | 1.84 | 1.43 | 1.06 | 0.865 | 0.501 | 0.388 | 0.314 | 0.259 | 0.225 | 0.180 | 0.147 | 0.079 |
| **1.75V/cell** | 4.08 | 2.95 | 2.33 | 1.96 | 1.48 | 1.09 | 0.900 | 0.518 | 0.394 | 0.320 | 0.264 | 0.230 | 0.183 | 0.151 | 0.080 |
| **1.70V/cell** | 4.37 | 3.14 | 2.45 | 2.04 | 1.53 | 1.13 | 0.926 | 0.529 | 0.404 | 0.328 | 0.271 | 0.235 | 0.185 | 0.154 | 0.081 |
| **1.65V/cell** | 4.75 | 3.36 | 2.58 | 2.16 | 1.60 | 1.15 | 0.940 | 0.534 | 0.420 | 0.338 | 0.277 | 0.239 | 0.188 | 0.157 | 0.082 |
| **1.60V/cell** | 5.12 | 3.57 | 2.72 | 2.27 | 1.68 | 1.19 | 0.945 | 0.554 | 0.430 | 0.348 | 0.285 | 0.244 | 0.189 | 0.158 | 0.083 |

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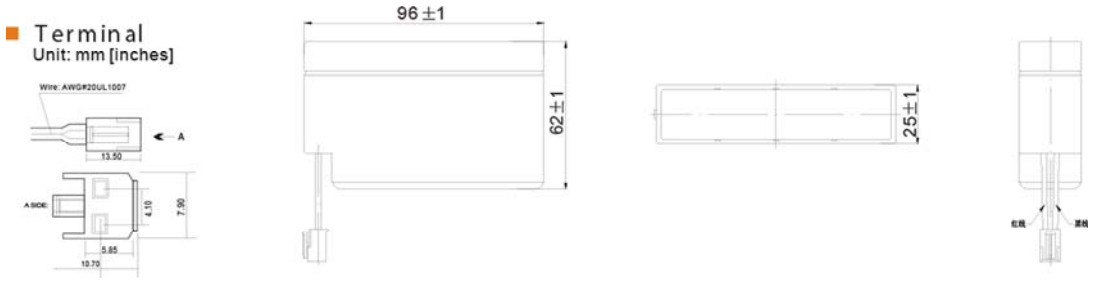
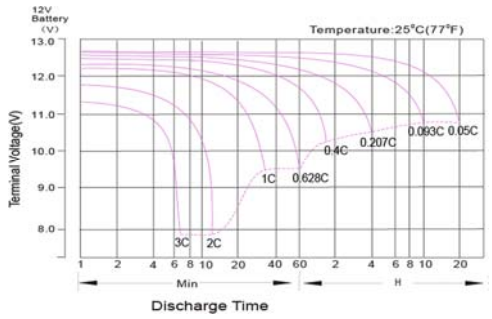
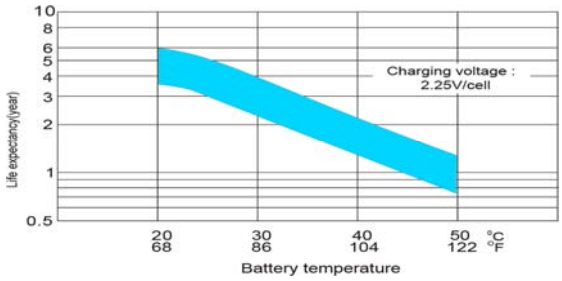
### Dimensions



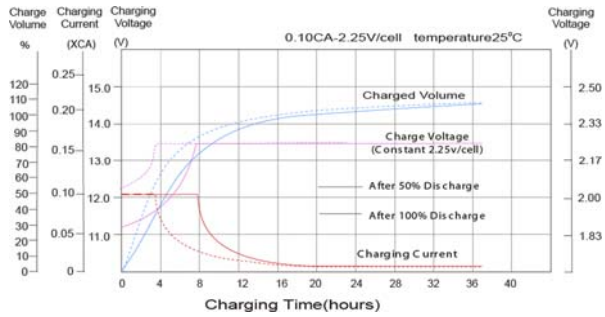

### Discharge Characteristics



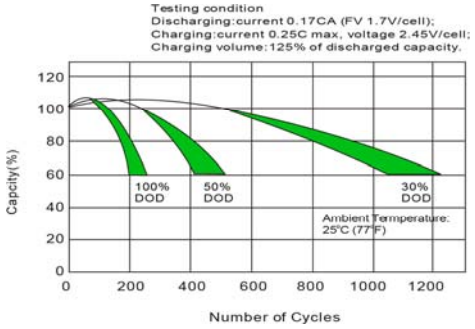

### Effect of Temperature on Long Term Float Life



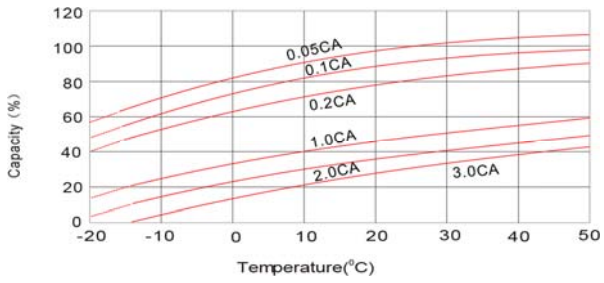

### Float Charging Characteristics



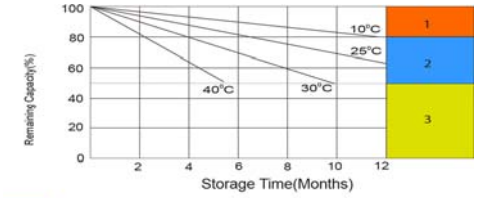

### Cycle Life in Relation to Depth of Discharge




### Temperature Effects in Relation to Battery Capacity




### Self Discharge Characteristics




1 No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

2 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 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 8~10 hours at limited current 0.05CA.

3 Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

MH26866 EMC tested Germany Intertek ETL SEMKO VdS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