

Product Features

- General purpose VRLA battery
- Absorbent Glass Mat (AGM) technology for superior performance
- Power to volume ratio yielding unrivalled energy density
- Fire Retardant Case to UL94:V0
- Valve regulated, maintenance free spill proof construction
- Rugged impact resistant ABS case and cover
- Low self-discharge rate for long shelf life



Product Applications



Solar



Emergency Lighting



Alarms



Cash Registers



Telecommunications



Uninterrupted Power Supply

Physical Specifications

| Model | Dimensions (±1mm/inch) | | | | Weight (±5%kg/lbs) | Terminal Type | Container |
|-------------|------------------------|---------|---------|--------------|--------------------|---------------|----------------|
| | Length | Width | Height | Total Height | | | |
| ASB12-1.2FR | 98/3.86 | 43/1.69 | 52/2.05 | 58/2.28 | 0.54/1.19 | 4.75 Faston | ABS(UL94: V-0) |
| | | | | | | | |

Product Specifications

| Nominal Voltage | Rated Capacity 25 °C/77 °C | Operating Temp.Range | Capacity Effected Temp | Capacity vs Storage Time |
|-----------------|----------------------------|--------------------------------------|------------------------|---|
| 12V | 20HR(10.5V) 1.2Ah | Discharge: -15 °C~50 °C(5 °F~122 °F) | 40 °C (104 °F):102% | Three months : 91% Six months : 82% Twelve months : 65% |
| | 10HR(10.5V)1.1Ah | Charge: -10 °C~50 °C(14 °F~122 °F) | 25 °C (77 °F):100% | |
| | 1HR(9.60V) 0.72Ah | Storage: -20 °C~50 °C(-4 °F~122 °F) | 0 °C (32 °F):85% | |
| | | Nominal: 25 °C±3 °C(77 °F±5 °F) | -15 °C (5 °F):65% | |

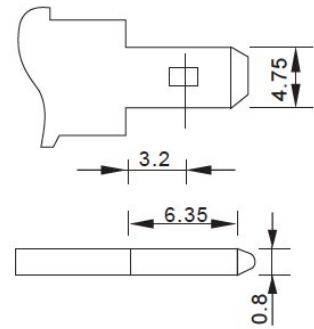
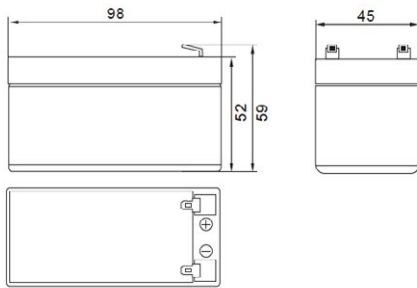
Constant Current Discharge Characteristics Unit:A (@ 25 °C (77 ° F)

| F.V/Time | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V | 4.58 | 2.90 | 2.27 | 1.28 | 0.79 | 0.43 | 0.30 | 0.25 | 0.21 | 0.11 | 0.06 |
| 9.90V | 4.45 | 2.82 | 2.21 | 1.25 | 0.77 | 0.43 | 0.30 | 0.24 | 0.21 | 0.11 | 0.06 |
| 10.2V | 4.26 | 2.70 | 2.13 | 1.21 | 0.75 | 0.42 | 0.29 | 0.24 | 0.21 | 0.11 | 0.06 |
| 10.5V | 4.08 | 2.58 | 2.06 | 1.18 | 0.74 | 0.42 | 0.29 | 0.24 | 0.21 | 0.11 | 0.06 |
| 10.8V | 3.85 | 2.44 | 1.95 | 1.14 | 0.72 | 0.41 | 0.28 | 0.23 | 0.20 | 0.11 | 0.06 |

Constant Power Discharge Characteristics Unit:W (@ 25 °C (77 ° F)

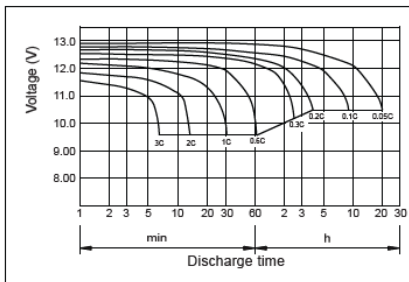
| F.V/Time | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 9.60V | 51.2 | 32.8 | 25.9 | 14.6 | 9.10 | 5.03 | 3.53 | 2.93 | 2.50 | 1.36 | 0.73 |
| 9.90V | 49.6 | 31.8 | 25.2 | 14.4 | 8.97 | 5.00 | 3.51 | 2.91 | 2.48 | 1.36 | 0.73 |
| 10.2V | 47.6 | 30.5 | 24.3 | 13.9 | 8.74 | 4.96 | 3.49 | 2.89 | 2.47 | 1.35 | 0.72 |
| 10.5V | 45.5 | 29.2 | 23.5 | 13.6 | 8.56 | 4.88 | 3.46 | 2.87 | 2.45 | 1.34 | 0.72 |
| 10.8V | 43.0 | 27.5 | 22.2 | 13.1 | 8.30 | 4.76 | 3.36 | 2.79 | 2.38 | 1.32 | 0.71 |

Battery Dimensions (mm)

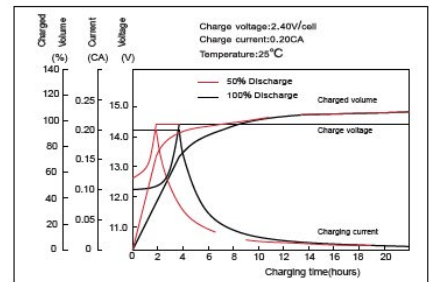


Electrical Characteristics

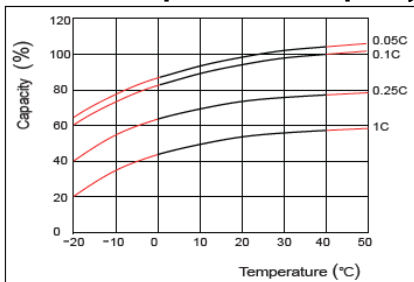
Discharge Characteristics @ 25 °C (77 °F)



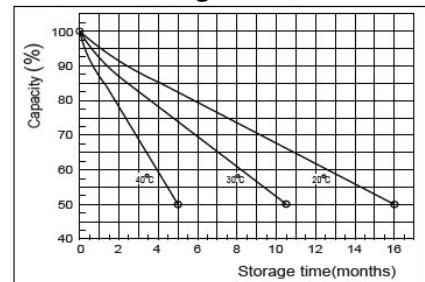
Charge Characteristics @ 25 °C (77 °F)



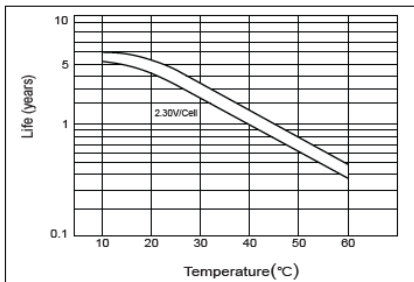
Effect of temperature on capacity



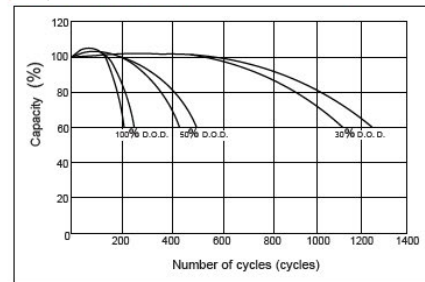
Self-discharge characteristic



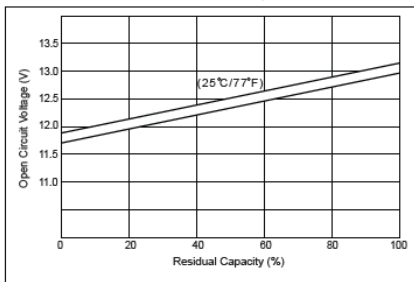
Floating life on temperature



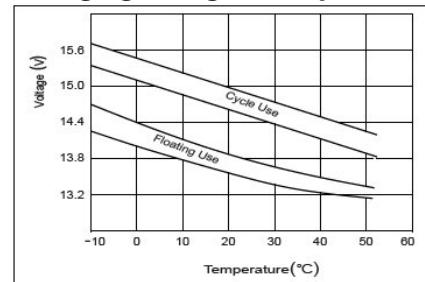
Cycle life on D.O.D 25 °C (77 °F)



OCV & Capacity 25 °C



Charging voltage & Temperature



Usage and Maintenance

Floating Voltage (25°C)

13.50 to 13.80V

Temperature compensation:
-18mV/°C