

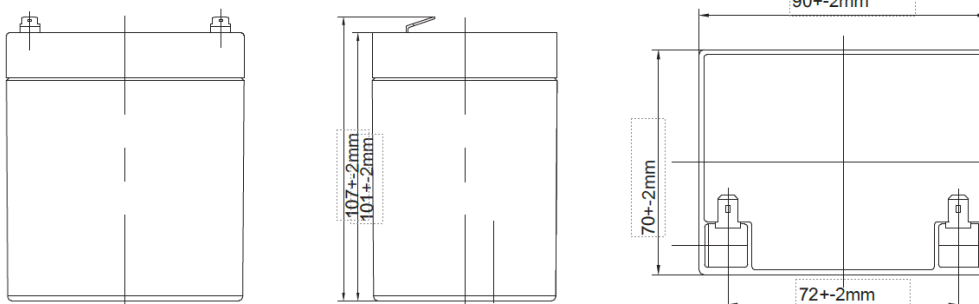
Capacity (@25°C)	20HR = 4.2AH 10HR = 3.8AH 1HR = 2.6AH to 9.0V
Operating Temperature Range	Charge = -15°C to +50°C Discharge = -40°C to +60°C Storage = -20°C to +60°C
Approx. Weight	1.3kg
Internal Resistance	Fully charged at 25°C : ≤ 49mΩ
Self Discharge	3% per month at (25°C)
Capacity Affected by Temp. (20HR)	40°C = 102% 25°C = 100% 0°C = 85% -15°C = 65%
Charge Voltage (25°C)	Cycle Use = 14.4-14.7V (-24mV/°C) Max Current = 1.35A Float Use = 13.5-13.8V (-18mV/°C)
Dimensions (Nominal)	Length: 90mm (3.54 in.) Width: 70mm (2.76 in.) Height: 101mm (3.98 in.) Total Height: 107mm (4.21 in.)

- Completely sealed, maintenance-free, low self-discharge
- State of the art AGM and grid alloy formula technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 8 years
- Cycle use: Up to 260 cycles at 100% DoD
- Cycle use: Up to 500 Cycles at 50% DoD
- Container and Cover Material – ABS UL94-HB
- Transportation - D.O.T., I.A.T.A. & F.A.A.



APPLICATIONS

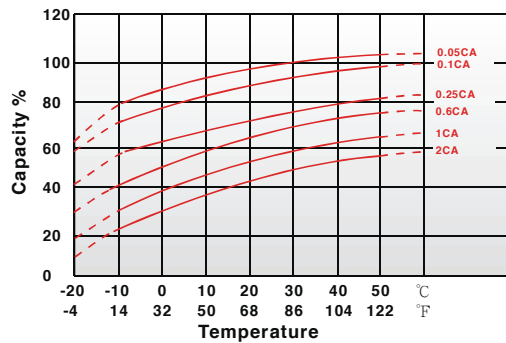
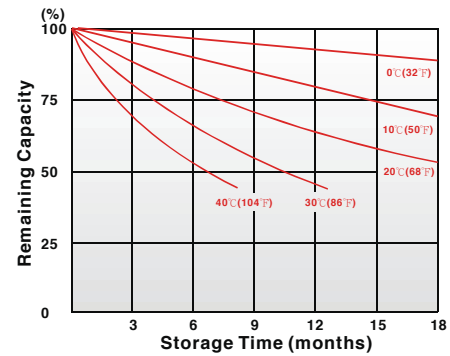
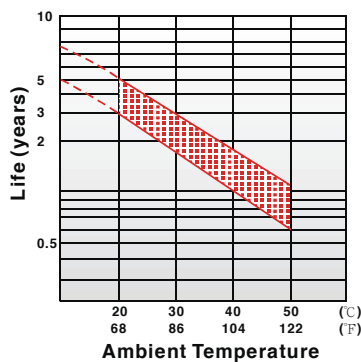
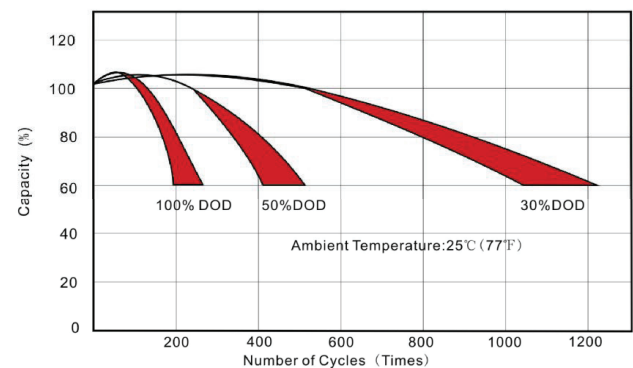
Multipurpose	Alarm & Security	DC Power Supply
Telecommunic	System Comm.	Auto Control
ations UPS	Power Supply	System Traffic
Medical	Elec. Power	Control Signaling
Equipment	System (EPS)	Emergency
Backup Power	Emergency	Lighting



Terminal Type

- F1**  0.187" x 0.032" quick disconnect tabs
- F2**  0.250" x 0.032" quick disconnect tabs

REV A

**■ Effect of Temperature on Capacity 25°C (77°F)****■ Capacity Retention Characteristic****■ Trickle (or Float) Service Life****■ Cycle Service Life****Regular Charge / Float Charge / Storage**

- Charging voltage temperature compensation needs to be applied when temperature is below 0°C and above +45°C.
- Charging in temperatures below 0°C, the charge current should not exceed 0.1C as the core battery temperature can increase rapidly and damage the battery.
- During floating charge or when in storage, the life of the battery is cut in half for every 8°C temperature rise over 25°C.

Discharge

- Discharging at elevated temperatures improves performance of the battery yet shortens its life due to accelerated aging.
- Low temperature affects the battery internal resistance and lowers its capacity.
- The battery will operate in temperature lower than -20°C when fully charged.
- The battery provides 100% specified capacity at 25°C. At -40°C the battery will deliver 35% of its stated capacity @10HR discharge rate and 10% of its stated capacity @1HR discharge rate.

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

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	7.95	6.32	4.95	3.22	1.90	1.20	0.92	0.76	0.63	0.43	0.35	0.19
1.80V/cell	10.02	7.73	5.97	3.73	2.12	1.31	1.00	0.82	0.68	0.46	0.37	0.20
1.75V/cell	11.41	8.54	6.46	3.91	2.20	1.36	1.03	0.84	0.70	0.47	0.38	0.20
1.70V/cell	12.73	9.33	6.94	4.09	2.28	1.41	1.06	0.86	0.72	0.47	0.38	0.20
1.67V/cell	14.11	10.14	7.41	4.28	2.36	1.45	1.09	0.89	0.74	0.48	0.39	0.21
1.60V/cell	15.18	10.73	7.75	4.45	2.44	1.50	1.13	0.91	0.76	0.49	0.39	0.21

Constant Power Discharge (W) at 25°C (77°F)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	14.54	11.75	9.30	6.14	3.67	2.33	1.80	1.48	1.24	0.85	0.70	0.37
1.80V/cell	17.94	14.13	11.05	7.06	4.07	2.53	1.94	1.59	1.33	0.90	0.74	0.39
1.75V/cell	20.00	15.34	11.80	7.32	4.21	2.61	2.00	1.63	1.36	0.92	0.75	0.40
1.70V/cell	21.84	16.46	12.50	7.58	4.34	2.69	2.05	1.67	1.39	0.93	0.76	0.40
1.67V/cell	23.67	17.56	13.15	7.85	4.46	2.77	2.10	1.71	1.42	0.94	0.77	0.40
1.60V/cell	25.16	18.23	13.55	8.09	4.59	2.84	2.15	1.75	1.45	0.95	0.78	0.41