

<b>Capacity (25°C)</b>	20HR (0.20A, 10.5V) = 4.00AH 10HR (0.379A, 10.5V) = 3.79AH 5HR (0.68A, 10.5V) = 3.40AH 1HR (2.32A, 10.5V) = 2.32AH
<b>Operating Temperature Range</b>	Charge = -15°C to +50°C Discharge = -20°C to +60°C Storage = -20°C to +60°C
<b>Approx. Weight</b>	1.40kg
<b>Internal Resistance</b>	Fully charged at 25°C : ≤ 41mΩ
<b>Self Discharge</b>	2% per month at (25°C)
<b>Capacity Affected by Temp. (20HR)</b>	40°C = 102% 25°C = 100% 0°C = 85% -15°C = 65%
<b>Charge Voltage (25°C)</b>	Cycle Use = 14.4-14.7V (-30mV/°C) Max Current = 1.20A Float Use = 13.5-13.8V (-20mV/°C)
<b>Dimensions (Nominal)</b>	Length: 90mm (3.54 in.) Width: 70mm (2.76 in.) Height: 101mm (3.98 in.) Total Height: 105mm (4.13 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: 5 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 (optional UL94-V0)
- Transportation - D.O.T., I.A.T.A. & F.A.A.

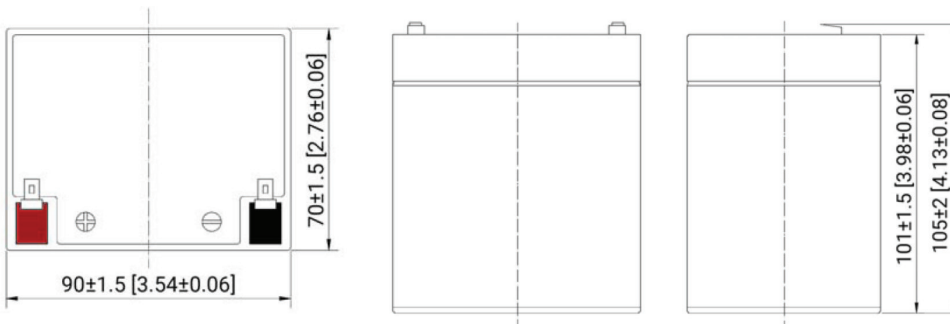


## ■ APPLICATIONS



Multipurpose  
Telecommunications  
UPS  
Medical Equipment

Alarm & Security System  
Comm. Power Supply  
Elec. Power System (EPS)  
Emergency Backup Power

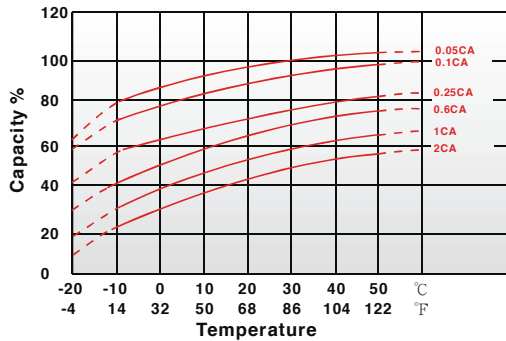
DC Power Supply  
Auto Control System  
Traffic Control Signaling  
Emergency Lighting



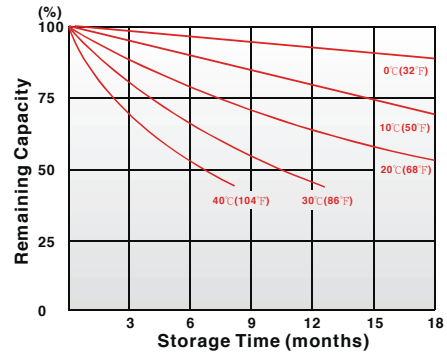
### Terminal Type

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

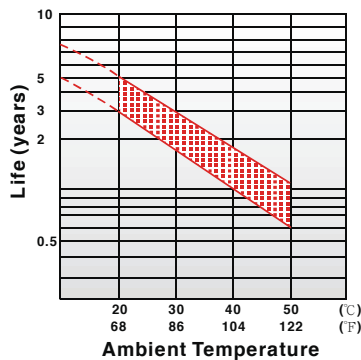
**Effect of Temperature on Capacity 25°C (77°F)**



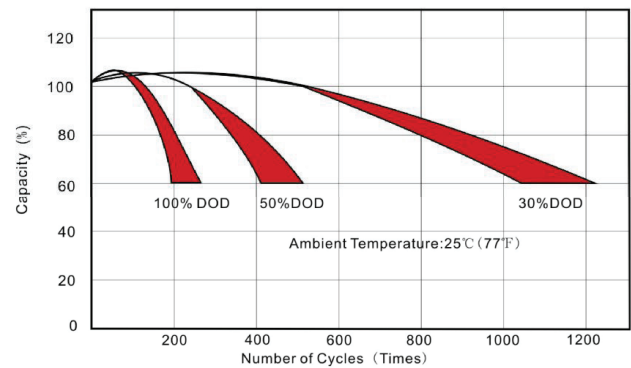
**Capacity Retention Characteristic**



**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 provides 100% specified capacity at 25°C. It will deliver 50% of its stated capacity at -20°C with 0.1C discharge current and 20% with 2C discharge current.

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

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.85V/Cell	11.03	7.84	6.10	3.78	2.23	1.30	0.99	0.788	0.655	0.559	0.365	0.193
1.80V/Cell	11.24	7.99	6.22	3.86	2.27	1.33	1.01	0.803	0.667	0.570	0.372	0.196
1.75V/Cell	11.45	8.14	6.33	3.93	2.32	1.35	1.03	0.818	0.680	0.581	0.379	0.200
1.70V/Cell	12.48	8.63	6.71	4.09	2.36	1.38	1.05	0.833	0.692	0.591	0.386	0.204
1.67V/Cell	13.74	9.36	7.29	4.31	2.38	1.39	1.06	0.842	0.699	0.597	0.390	0.206
1.60V/Cell	14.89	9.85	7.67	4.50	2.41	1.41	1.07	0.851	0.707	0.604	0.394	0.208

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

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.85V/Cell	21.51	15.29	11.90	7.38	4.35	2.54	1.93	1.54	1.28	1.09	0.71	0.38
1.80V/Cell	21.92	15.58	12.13	7.52	4.43	2.59	1.97	1.57	1.30	1.11	0.73	0.38
1.75V/Cell	22.33	15.87	12.35	7.66	4.52	2.64	2.01	1.60	1.33	1.13	0.74	0.39
1.70V/Cell	24.34	16.83	13.09	7.97	4.60	2.69	2.04	1.62	1.35	1.15	0.75	0.40
1.67V/Cell	26.80	18.25	14.21	8.41	4.64	2.71	2.07	1.64	1.36	1.16	0.76	0.40
1.60V/Cell	29.04	19.21	14.95	8.77	4.70	2.74	2.09	1.66	1.38	1.18	0.77	0.41