

Capacity (25°C)	20HR (0.145A, 10.5V) = 2.90AH 10HR (0.275A, 10.5V) = 2.75AH 5HR (0.49A, 10.5V) = 2.45AH 1HR (1.65A, 10.5V) = 1.65AH
Operating Temperature Range	Charge = -15°C to +50°C Discharge = -20°C to +60°C Storage = -20°C to +60°C
Approx. Weight	1.20kg
Internal Resistance	Fully charged at 25°C : ≤ 33mΩ
Self Discharge	2% 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 (-30mV/°C) Max Current = 0.87A Float Use = 13.5-13.8V (-20mV/°C)
Dimensions (Nominal)	Length: 79mm (3.11 in.) Width: 56mm (2.20 in.) Height: 99mm (3.90 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.

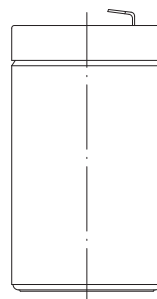
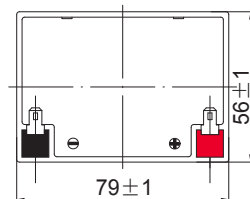
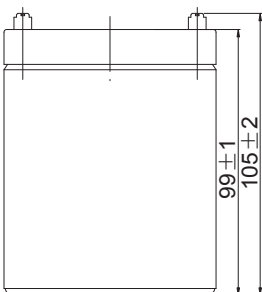


■ APPLICATIONS



Multipurpose
Telecommunications
UPS
Medical Equipment

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

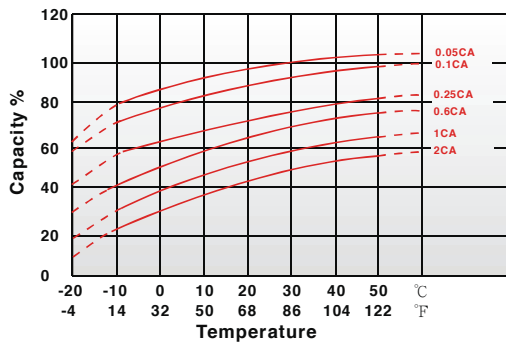
DC Power Supply
Auto Control System
Traffic Control Signaling
Emergency Lighting



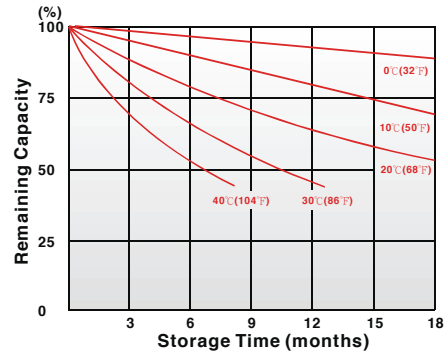
Terminal Type

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

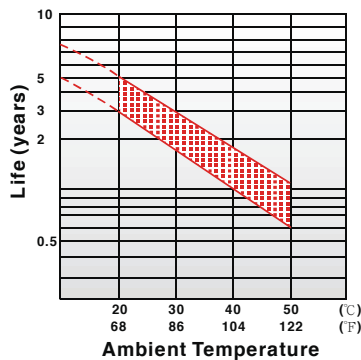
Effect of Temperature on Capacity 25°C (77°F)



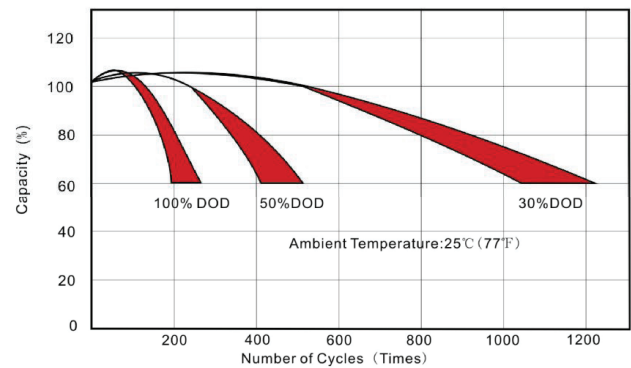
Capacity Retention Characteristic



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	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	5.57	3.88	3.20	2.78	2.23	1.71	1.40	0.856	0.652	0.536	0.455	0.394	0.313	0.260	0.144
1.80V/cell	6.85	4.63	3.71	3.14	2.47	1.87	1.51	0.909	0.685	0.563	0.474	0.411	0.325	0.270	0.145
1.75V/cell	8.11	5.24	4.09	3.42	2.63	1.98	1.59	0.948	0.710	0.581	0.487	0.421	0.334	0.275	0.146
1.70V/cell	9.20	5.78	4.43	3.67	2.77	2.06	1.65	0.987	0.733	0.595	0.499	0.432	0.339	0.280	0.149
1.65V/cell	10.1	6.21	4.69	3.85	2.88	2.14	1.72	1.02	0.751	0.608	0.510	0.440	0.344	0.283	0.151
1.60V/cell	10.6	6.47	4.88	3.98	2.96	2.19	1.76	1.05	0.769	0.623	0.521	0.449	0.351	0.288	0.152

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	10.5	7.39	6.16	5.38	4.35	3.36	2.76	1.69	1.30	1.07	0.910	0.790	0.630	0.525	0.290
1.80V/cell	12.8	8.74	7.07	6.04	4.77	3.64	2.95	1.79	1.35	1.12	0.943	0.820	0.649	0.540	0.291
1.75V/cell	14.9	9.78	7.73	6.52	5.07	3.84	3.09	1.86	1.39	1.14	0.963	0.835	0.663	0.547	0.292
1.70V/cell	16.8	10.7	8.29	6.95	5.29	3.97	3.20	1.92	1.43	1.17	0.981	0.850	0.669	0.553	0.296
1.65V/cell	18.2	11.3	8.67	7.22	5.46	4.10	3.32	1.97	1.46	1.19	0.998	0.863	0.676	0.558	0.298
1.60V/cell	18.8	11.7	8.93	7.37	5.56	4.15	3.36	2.01	1.49	1.21	1.01	0.875	0.687	0.565	0.299