

Capacity (25°C)	20HR (5.41A, 10.5V) = 108.2AH 10HR (10.20A, 10.5V) = 102AH 5HR (15.86A, 10.5V) = 79.3AH 1HR (65.14A, 10.5V) = 65.1AH
Operating Temperature Range	Charge = -15°C to +50°C Discharge = -20°C to +60°C Storage = -20°C to +60°C
Approx. Weight	30kg
Internal Resistance	Fully charged at 25°C : ≤ 5mΩ
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 = 30A Float Use = 13.5-13.8V (-20mV/°C)
Dimensions (Nominal)	Length: 307mm (12.09 in) Width: 168mm (6.61 in) Height: 208mm (8.19 in) Total Height: 230mm (9.06 in)

- Completely sealed, maintenance-free, low self-discharge
- State of the art hybrid gel and grid alloy formula technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 12 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.

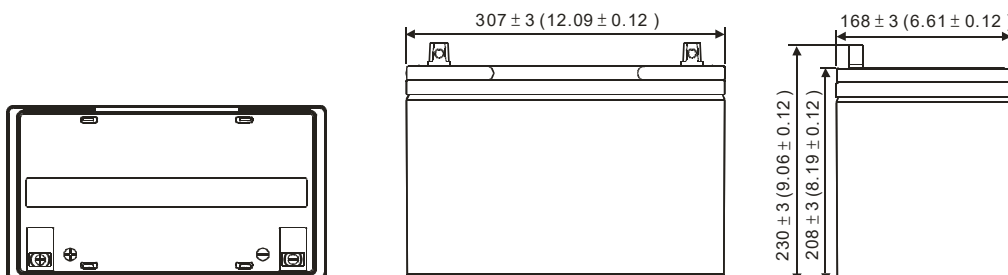


■ APPLICATIONS

Multipurpose
Telecommunications
UPS
Medical Equipment

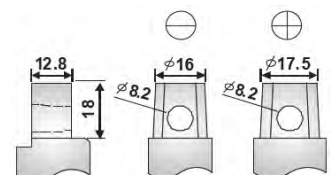
Electric Vehicle
Comm. Power Supply
Elec. Power System (EPS)
Emergency Backup Power

DC Power Supply
Auto Control System
Traffic Control Signaling
Emergency Lighting

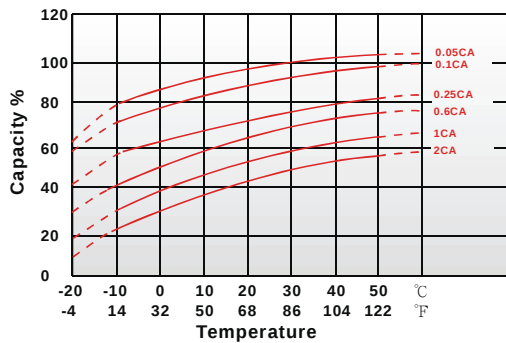


Terminal Type

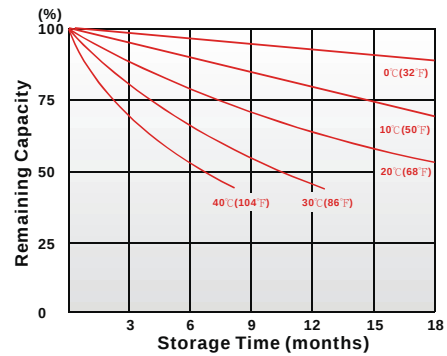
■ Terminal NB



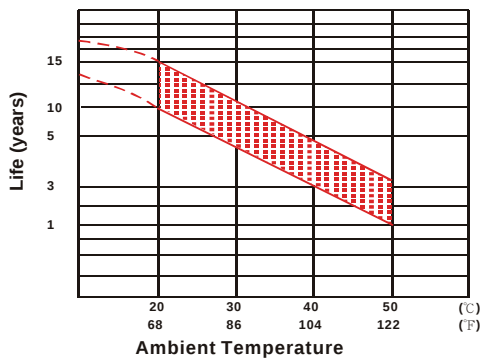
Effect of Temperature on Capacity 25°C (77°F)



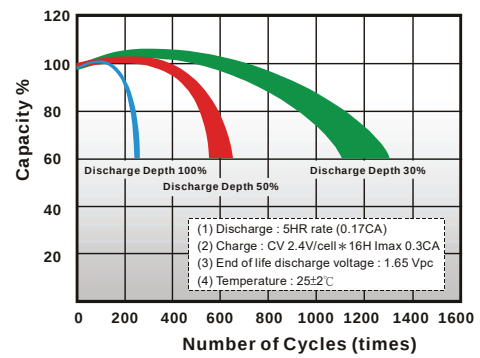
Capacity Retention Characteristic



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	355.48	209.84	164.93	107.51	62.75	36.27	27.85	22.87	18.74	15.28	9.82	5.21
1.80V/cell	362.27	213.85	168.08	109.56	63.94	36.96	28.38	23.31	19.10	15.57	10.00	5.31
1.75V/cell	369.06	217.86	171.23	111.62	65.14	37.66	28.92	23.75	19.46	15.86	10.20	5.41
1.70V/cell	402.28	230.93	181.50	116.07	66.29	38.32	29.43	24.16	19.80	16.14	10.38	5.50
1.67V/cell	442.87	250.54	196.91	122.56	67.00	38.73	29.74	24.42	20.01	16.31	10.49	5.56

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	693.18	409.20	321.61	209.64	122.35	70.73	54.31	44.60	36.55	29.79	19.16	10.15
1.80V/cell	706.43	417.01	327.75	213.65	124.69	72.08	55.35	45.45	37.25	30.36	19.50	10.35
1.75V/cell	719.67	424.83	333.90	217.65	127.03	73.43	56.39	46.30	37.94	30.93	19.89	10.54
1.70V/cell	784.44	450.32	353.93	226.34	129.26	74.72	57.38	47.12	38.61	31.48	20.24	10.73
1.67V/cell	863.60	488.56	383.98	238.98	130.65	75.52	57.99	47.62	39.02	31.81	20.46	10.84