

Capacity (25°C)	20HR (4.21A, 10.5V) = 84.2Ah 10HR (8.1A, 10.5V) = 81.1AH 5HR (15A, 10.5V) = 75AH 1HR (55.2A, 10.5V) = 55.2AH
Operating Temperature Range	Charge -20°C to 60°C (-4°F to 140°F) Discharge -40°C to 65°C (-40°F to 149°F) Storage -20°C to 40°C (-4°F to 104°F)
Approx. Weight	25.6kg (56.4 lbs)
Max. Discharge [A]	960A
Self Discharge	2% per month at (25°C)
Capacity Affected by Temp. (20HR)	40°C = 103% 25°C = 100% 0°C = 86% -15°C = 65%
Charge Voltage (25°C)	Cycle Use = 14.1-14.4V (-3mV/cell/°C) Max Current = 24A Float Use = 13.6V (-3mV/cell/°C)
Dimensions (Nominal)	Length: 260 mm (10.24 in) Width: 168 mm (6.61 in) Height: 208 mm (8.19 in) Total Height: 211 mm (8.31 in)

- Completely sealed, maintenance-free, low self-discharge
- High-rate performance, high energy density
- State of the art Pure Lead Punched Grid PLPG technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 20 yrs (25°C)
- Container and Cover Material is ABS/PC Flame Retardant to UL94-V0
- CE, UL certified
- Transportation- D.O.T., I.A.T.A. & F.A.A.



M6 Terminals

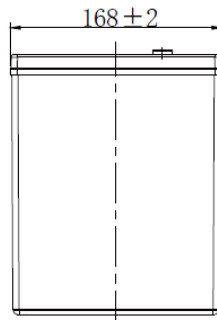
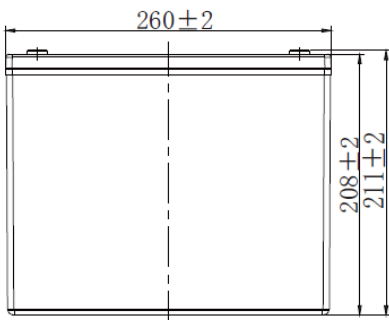


■ APPLICATIONS

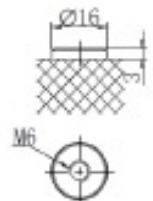
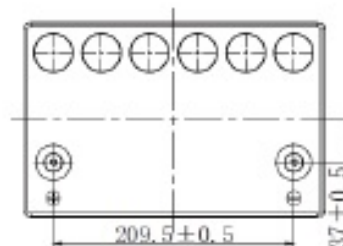
Multipurpose
Telecommunications
UPS
Medical Equipment

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

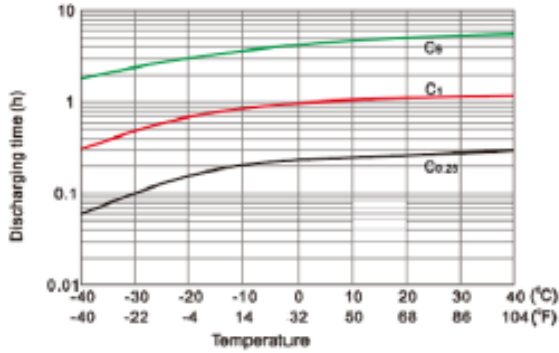
DC Power Supply
Auto Control System
Traffic Control Signaling
Emergency Lighting



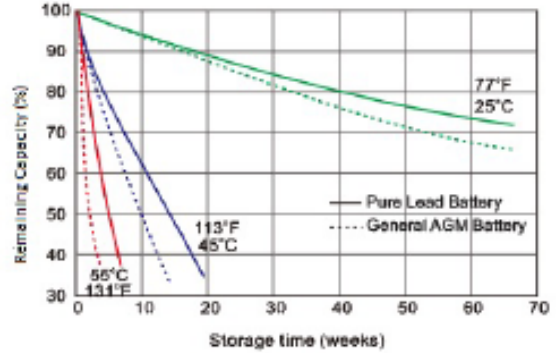
Note: Terminal Torque Values in-lb(Nm) :97.28-130.0(11-14.7)



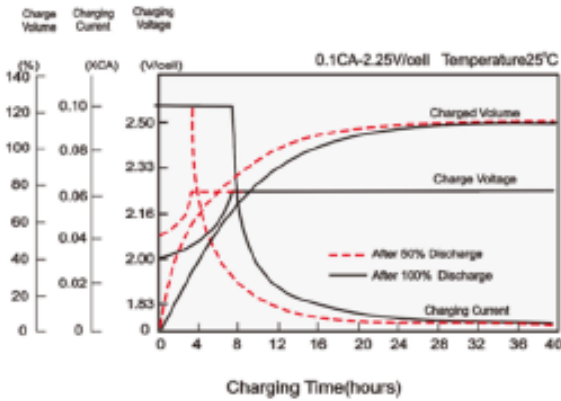
Effects of Temperature on Discharge Time



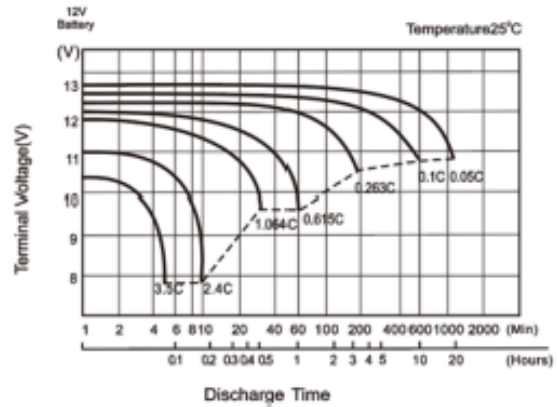
Self Discharge Characteristics



Float Charging Characteristics



Discharge Characteristics



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	221.8	157.9	133.2	86.7	51.6	28.8	20.6	16.6	14.1	9.54	7.84	4.08
1.80V/cell	246.7	182.1	148.4	92.6	53.7	30.2	21.5	17.2	14.7	9.86	8.00	4.16
1.75V/cell	273.6	199.3	160.8	98.6	55.2	31.0	22.1	17.7	15.0	10.00	8.11	4.21
1.70V/cell	300.5	215.5	171.1	102.4	57.4	31.5	22.5	18.0	15.3	10.10	8.21	4.25
1.67V/cell	317.8	227.0	180.4	106.5	58.6	32.0	22.8	18.2	15.4	10.20	8.27	4.28
1.60V/cell	343.7	230.9	186.5	108.6	59.6	32.5	23.1	18.4	15.6	10.30	8.32	4.31

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	432.1	308.9	262.0	172.3	103.3	58.0	41.7	33.6	28.7	19.5	16.1	8.44
1.80V/cell	472.0	352.6	289.1	182.6	106.8	60.2	43.2	34.7	29.8	20.1	16.4	8.56
1.75V/cell	518.2	382.3	310.5	192.5	109.0	61.5	44.1	35.5	30.3	20.3	16.5	8.62
1.70V/cell	550.2	408.8	326.4	197.8	112.3	62.0	44.6	35.8	30.5	20.4	16.6	8.66
1.67V/cell	600.0	427.4	330.0	204.8	114.2	62.8	44.9	36.1	30.7	20.5	16.7	8.68
1.60V/cell	650.5	430.5	350.1	206.6	115.0	63.2	45.0	36.2	30.7	20.5	16.7	8.70