

Capacity (25°C)	20HR (7.10A, 10.5V) = 142AH 10HR (13.7A, 10.5V) = 137AH 5HR (25.8A, 10.5V) = 129AH 1HR (94.6A, 10.5V) = 94.6AH
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°C to 104°F)
Approx. Weight	43.5 kg (95.9 lbs)
Max. Discharge [A]	1620A
Self Discharge	2% per month at (25°C)
Capacity Affected by Temp. (20HR)	40°C (104°F) = 103% 25°C (77°F) = 100% 0°C (32°F) = 86% -15°C (5°F) = 65%
Charge Voltage (25°C)	Cycle Use = 14.1-14.4V (-3mV/cell/°C) Max Current = 40.5A Float Use = 13.62V (-3mV/cell/°C)
Dimensions (Nominal)	Length: 340.9 mm (13.42 in) Width: 170 mm (6.69 in) Height: 273 mm (10.76 in) Total Height: 276 mm (10.85 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

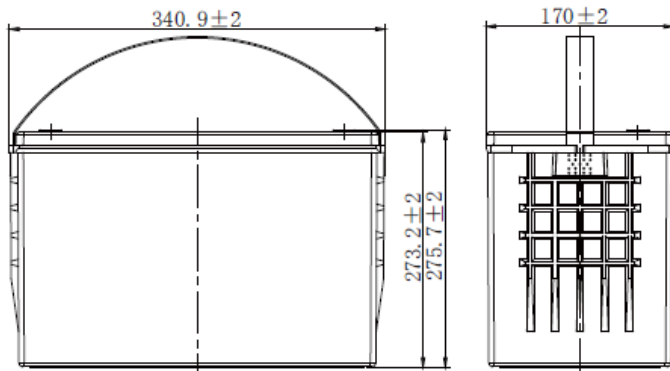


■ APPLICATIONS

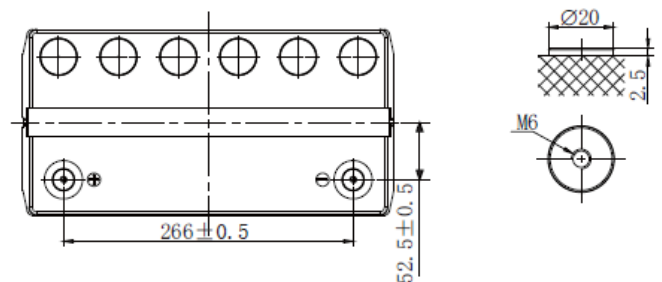
Multipurpose
Telecommunications
UPS
Medical Equipment

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

DC Power Supply
Auto Control System
Traffic Control Signaling
Emergency Lighting

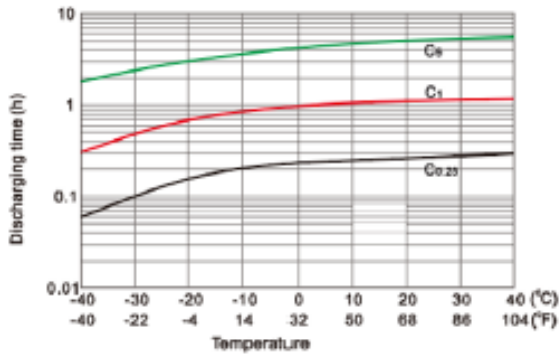


Note: Terminal Torque Values in-lb(Nm) :97.28-130.0(11-14.7)

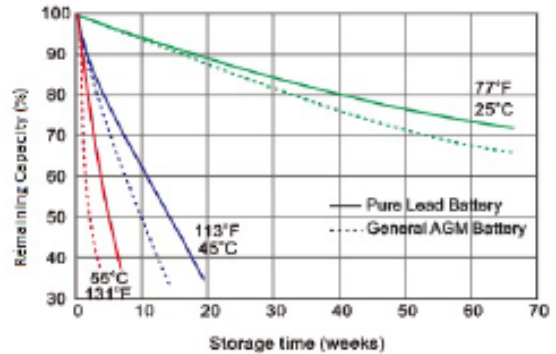


REV B

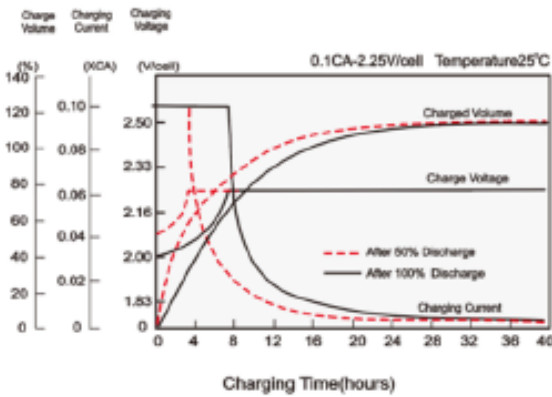
Effects of Temperature on Discharge Time



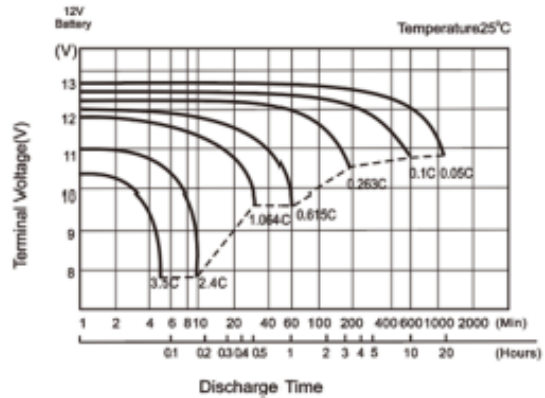
Self Discharge Characteristics



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	325.6	269.1	216.4	153.9	88.4	48.6	35.9	27.9	24.1	16.2	13.2	6.89
1.80V/cell	375.8	310.2	241.2	164.4	92.0	50.9	37.4	29.0	25.2	16.8	13.5	7.02
1.75V/cell	410.8	339.6	261.3	175.0	94.6	52.4	38.4	29.8	25.8	17.0	13.7	7.10
1.70V/cell	442.6	367.2	278.0	181.7	98.2	53.1	39.1	30.3	26.1	17.2	13.9	7.16
1.67V/cell	494.0	386.8	285.0	189.0	100.4	54.1	39.6	30.7	26.4	17.4	14.0	7.22
1.60V/cell	533.9	393.3	308.0	192.7	102.1	54.9	40.1	31.1	26.7	17.5	14.0	7.27

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	645.3	526.2	425.7	305.8	177.0	97.8	72.4	56.7	49.1	33.2	27.2	14.3
1.80V/cell	739.2	600.7	469.7	324.1	182.9	101.6	75.1	58.6	51.1	34.2	27.6	14.5
1.75V/cell	795.8	651.4	504.5	341.7	186.7	103.9	76.6	59.9	51.9	34.5	27.9	14.6
1.70V/cell	838.4	696.5	530.4	351.2	192.4	104.6	77.5	60.5	52.3	34.6	28.1	14.6
1.67V/cell	920.0	728.2	540.0	363.5	195.5	105.9	78.0	61.0	52.5	34.9	28.1	14.6
1.60V/cell	967.7	730.0	578.0	366.8	197.0	106.6	78.2	61.0	52.5	34.9	28.2	14.7