

<b>Capacity (25°C)</b>	20HR (6.58A, 10.5V) = 131.6AH 10HR (12.7A, 10.5V) = 127AH 5HR (24.8A, 10.5V) = 124AH 1HR (91.1A, 10.5V) = 91.1AH
<b>Operating Temperature Range</b>	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)
<b>Approx. Weight</b>	41.7 kg (91.9 lbs)
<b>Max. Discharge [A]</b>	1500A
<b>Self Discharge</b>	2% per month at (25°C)
<b>Capacity Affected by Temp. (20HR)</b>	40°C (104°F) = 103% 25°C (77°F) = 100% 0°C (32°F) = 86% -15°C (5°F) = 65%
<b>Charge Voltage (25°C)</b>	Cycle Use = 14.1-14.4V (-3mV/cell/°C) Max Current = 37.5A Float Use = 13.62V (-3mV/cell/°C)
<b>Dimensions (Nominal)</b>	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

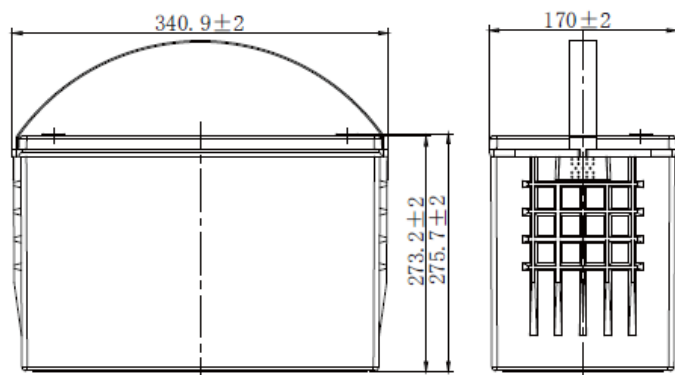


## ■ APPLICATIONS

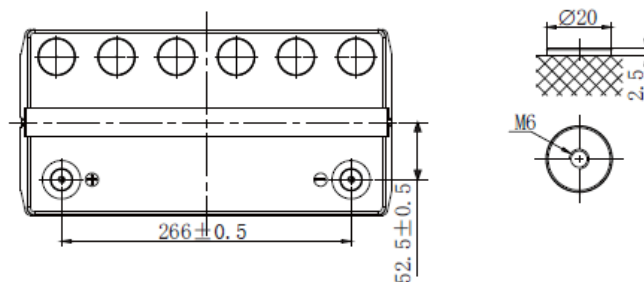
Multipurpose  
Telecommunications  
UPS  
Medical Equipment

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

DC Power Supply  
Auto Control System  
Traffic Control Signaling  
Emergency Lighting

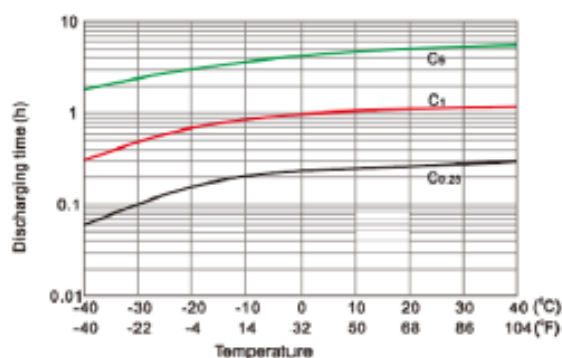


Note: Terminal Torque Values in-lb(Nm) :97.28-130.0(11-14.7)

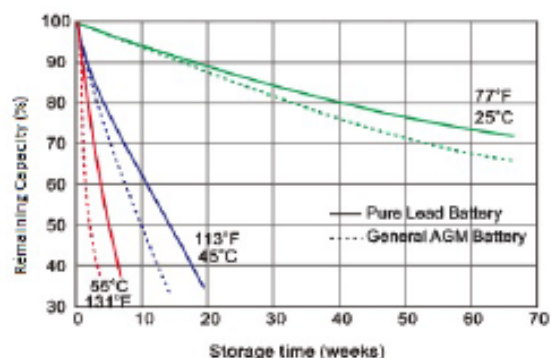


REV B

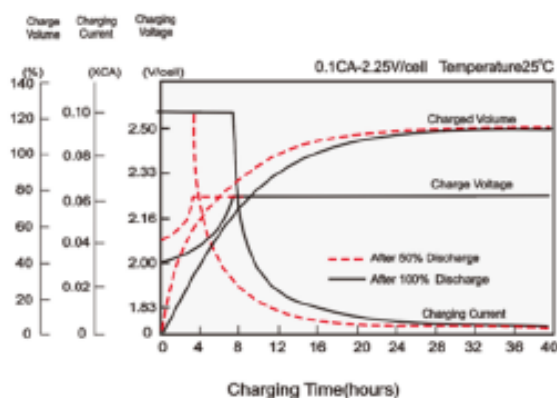
## Effects of Temperature on Discharge Time



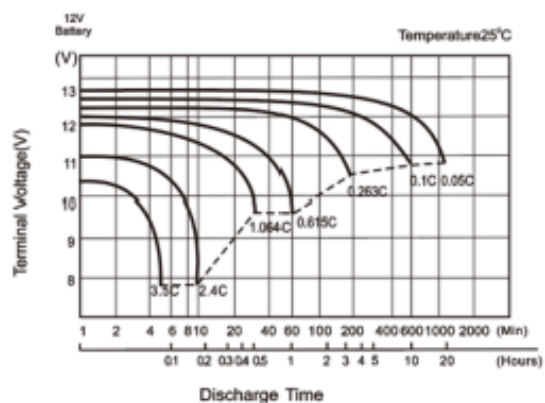
## Self Discharge Characteristics



## 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	321.0	249.6	196.5	140.9	85.2	47.6	35.3	27.3	23.2	15.9	12.3	6.38
1.80V/cell	361.3	287.7	218.9	150.5	88.6	49.8	36.9	28.4	24.3	16.4	12.5	6.50
1.75V/cell	395.0	315.0	237.2	160.2	91.1	51.2	37.8	29.2	24.8	16.6	12.7	6.58
1.70V/cell	425.6	340.6	252.4	166.3	94.6	51.9	38.6	29.7	25.2	16.8	12.8	6.63
1.67V/cell	475.0	358.8	266.1	173.1	96.7	52.9	39.0	30.1	25.4	17.0	12.9	6.68
1.60V/cell	513.4	364.8	275.1	176.4	98.3	53.7	39.5	30.4	25.7	17.2	13.0	6.73

### 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	639.3	488.1	386.4	280.0	170.5	95.6	71.4	55.4	47.3	32.5	25.2	13.2
1.80V/cell	713.9	557.1	426.4	296.7	176.3	99.4	74.0	57.3	49.2	33.4	25.6	13.4
1.75V/cell	766.0	604.2	457.9	312.8	179.9	101.5	75.5	58.5	50.0	33.7	25.8	13.5
1.70V/cell	807.9	646.0	481.4	321.5	185.4	102.3	76.4	59.1	50.4	33.9	26.0	13.5
1.67V/cell	870.0	675.4	500.0	332.7	188.4	103.6	76.8	59.6	50.6	34.1	26.1	13.6
1.60V/cell	887.6	680.3	516.3	335.8	189.8	104.2	77.1	59.7	50.6	34.1	26.1	13.6