

Capacity (25°C)	20HR (8.07A, 10.5V) = 161.4AH 10HR (15.2A, 10.5V) = 152AH 5HR (26.5A, 10.5V) = 132.5AH 1HR (97.9A, 10.5V) = 97.9AH
Operating Temperature Range	Charge = -15°C to +55°C Discharge = -40°C to +65° C Storage = -20°C to +60°C
Approx. Weight	48.0 kg (106 lbs)
Max. Discharge	1800A
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 (-30mV/°C) Max Current = 150A Float Use = 13.6V (-20mV/°C)
Dimensions (Nominal)	Length: 559mm (22.01 in) Width: 125mm (4.92 in) Height: 277mm (10.90 in) Total Height: 277mm (10.90 in)

- Completely sealed, maintenance-free, low self-discharge
- 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 years
- Cycle use: Up to 600 cycles at 100% DoD
- Cycle use : Up to 1100 Cycles at 50% DoD
- Container and Cover Material – PC/ABS UL94-V0
- Transportation - D.O.T., I.A.T.A. & F.A.A.

Terminal Detail



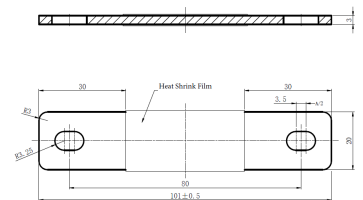
■ APPLICATIONS

Multipurpose
Telecommunications
UPS
Medical Equipment

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

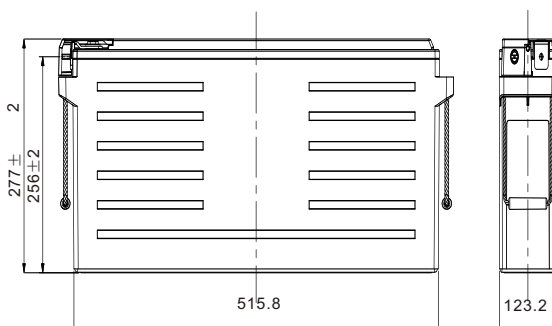
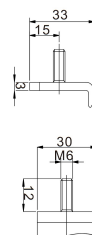
DC Power Supply
Auto Control System
Traffic Control Signaling
Emergency Lighting

Terminal Bracket

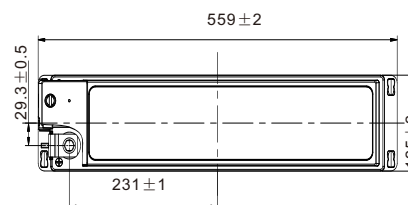


Terminal Type

■ Terminal M

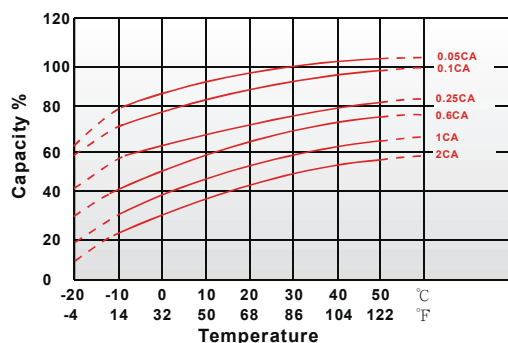


HARDWARE KIT	
DESCRIPTION	QTY
BRACKET WITH HEAT SHRINK, TBL-80-(203Z)6-01	1
NUT, HEX, M6	2
FLAT WASHER, M6	2
SPRING WASHER, ø6	2

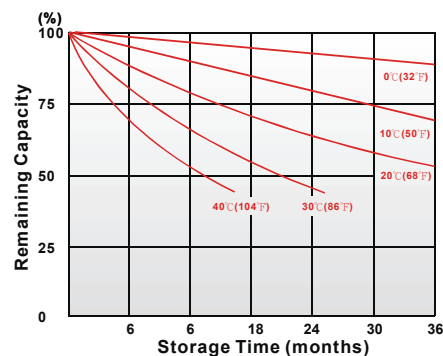


REV B

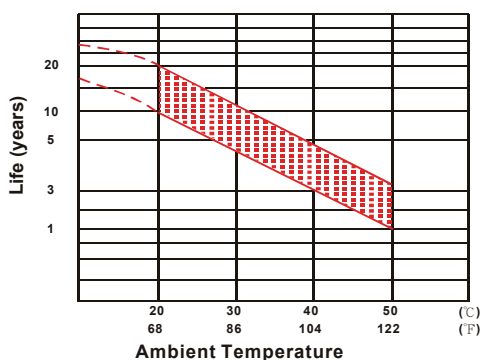
Effect of Temperature on Capacity 25°C (77°F)



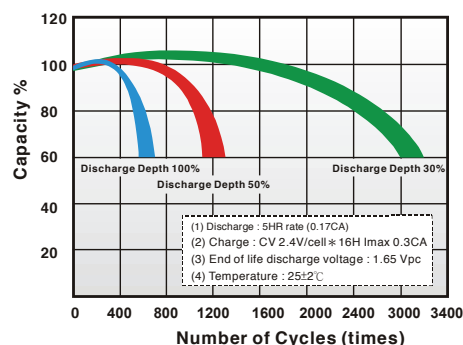
Capacity Retention Characteristic



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 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	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	268.7	230.4	152.1	90.7	51.0	37.0	29.6	24.7	17.9	14.5	7.69
1.80V/cell	300.2	250.6	160.8	94.8	53.3	38.6	30.9	25.8	18.5	15.0	7.95
1.75V/cell	323.4	266.1	166.8	97.9	54.6	39.7	31.7	26.5	18.8	15.2	8.07
1.70V/cell	347.5	280.5	172.3	99.8	55.7	40.4	32.1	26.9	18.9	15.4	8.14
1.67V/cell	369.4	293.8	175.5	101.2	56.4	41.0	32.5	27.1	19.0	15.5	8.20
1.60V/cell	393.1	305.3	180.2	103.0	57.2	41.5	32.9	27.4	19.2	15.6	8.25

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

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	509.7	440.8	296.1	179.7	102.0	74.1	59.6	49.9	36.2	29.5	15.7
1.80V/cell	560.4	473.0	311.0	187.0	105.9	77.0	61.9	51.8	37.2	30.4	16.2
1.75V/cell	597.7	497.6	320.0	191.8	108.0	78.8	63.3	53.0	37.6	30.8	16.4
1.70V/cell	632.4	518.2	327.8	194.5	109.6	79.9	64.0	53.6	37.7	30.9	16.5
1.67V/cell	665.6	537.3	332.5	196.5	110.6	80.8	64.5	54.0	37.9	31.1	16.5
1.60V/cell	696.6	550.1	338.1	198.2	111.3	81.3	64.9	54.2	38.0	31.2	16.6