zeus Battery Products

PC12-210UHR 12V240WPC

Ultra High Rate SLA Battery

Capacity (25°C)	20HR (2.81A,10.5V) = 56.2AH 10HR (5.36A,10.5V) = 53.6AH 5HR (9.47A,10.5V) = 47.35AH 1HR (37.10A,10.5V) = 37.10AH
Operating Temperature Range	Charge = -15°C to +50°C Discharge = -20°C to +60°C Storage = -20°C to +60°C
Approx. Weight	17.7kg / 39lbs
15 Mins Rate	240W/cell to 1.67V/cell
Short Circuit Current	1262A
Capacity Affected by Temp. (20HR)	40°C = 102% 25°C = 100% 0°C = 85% -15°C = 65%
Charge Voltage (25°C)	Cycle Use = 14.1-14.4V (-24mV/°C) Max Current = 13.75A Float Use = 13.5-13.8V (-18mV/°C)
Dimensions (Nominal)	Length: 229mm (9.02in.) Width: 138mm (5.43 in.) Height: 200mm (7.87 in.) Total Height: 203mm (7.99 in.)

- Completely sealed, maintenance-free, low self-discharge
- State of the art hybrid grid and alloy formula
- 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 600 Cycles at 50% DoD
- Container and Cover Material – ABS UL94-H B (optional UL94-V0)
- Transportation - D.O.T., I.A.T.A. & F.A.A.

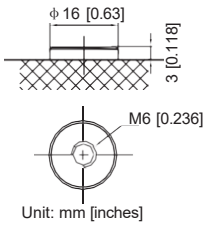
ISO14001 ISO 9001 CE MH29008

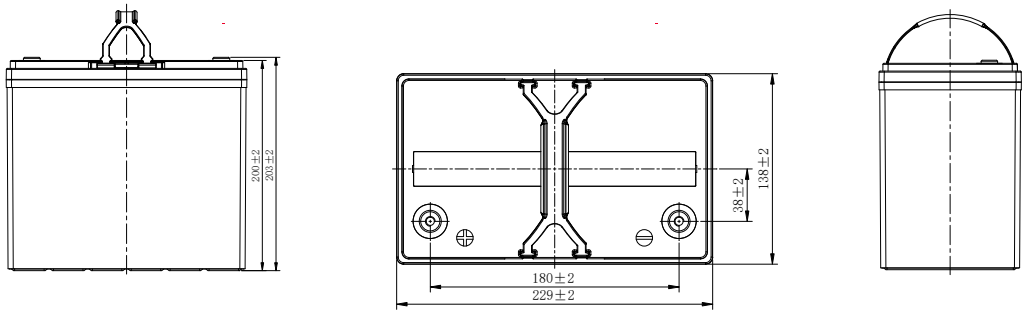
APPLICATIONS

High Power Backup	Alarm & Security System	DC Power Supply
Telecommunications	Electric Start	Auto Control System
Critical UPS	Elec. Power System (EPS)	Traffic Control Signaling
Medical Equipment	Emergency Backup Power	Emergency Lighting

Terminal Type

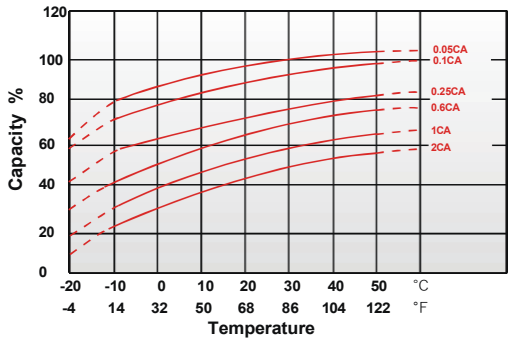
M6



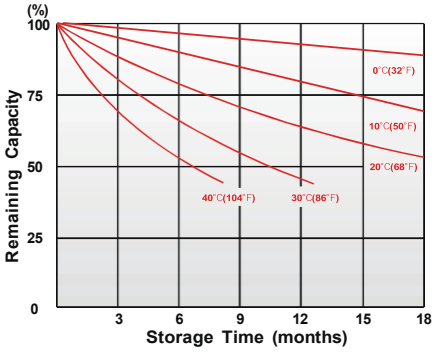


REV A

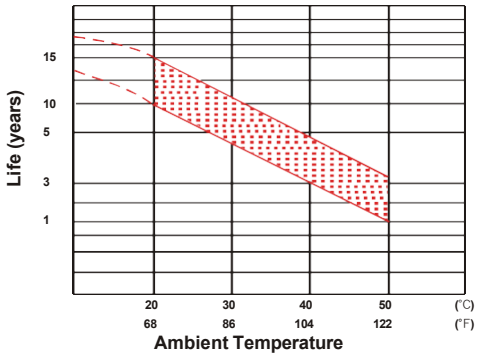
Effect of Temperature on Capacity 25°C (77°F)



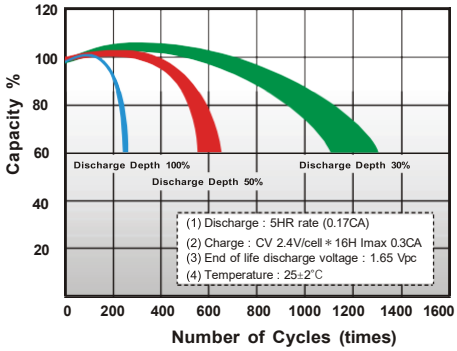
Capacity Retention Characteristic



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	147.1	107.6	90.4	59.7	34.1	19.2	13.7	10.8	8.99	7.75	5.13	2.64
1.80V/cell	175.1	122.4	102.4	64.2	35.9	20.0	14.2	11.2	9.28	7.97	5.26	2.75
1.75V/cell	202.2	135.5	110.6	67.2	37.1	20.6	14.6	11.4	9.47	8.13	5.36	2.81
1.70V/cell	219.3	147.6	118.6	70.6	38.4	21.0	15.0	11.7	9.69	8.32	5.45	2.86
1.67V/cell	237.5	156.0	127.0	73.1	39.5	21.6	15.2	11.9	9.88	8.49	5.56	2.91
1.60V/cell	255.6	166.8	132.4	75.7	40.8	22.0	15.5	12.2	10.1	8.73	5.68	2.99

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	286.3	210.7	177.9	118.6	68.2	38.5	27.7	21.9	18.3	15.8	10.5	5.46
1.80V/cell	336.9	237.0	199.4	126.3	71.3	39.9	28.6	22.5	18.8	16.2	10.8	5.65
1.75V/cell	385.5	259.9	213.5	131.3	73.4	41.0	29.2	22.9	19.0	16.4	10.9	5.75
1.70V/cell	413.0	280.0	226.2	136.5	75.3	41.4	29.7	23.3	19.3	16.7	11.0	5.81
1.67V/cell	443.8	293.8	240.8	140.6	77.1	42.3	30.0	23.6	19.6	16.9	11.2	5.89
1.60V/cell	472.3	310.7	248.5	144.2	78.9	42.7	30.4	24.0	20.0	17.2	11.3	5.98