

Capacity (25°C)	20HR (5.24A, 10.5V) = 104.8AH 10HR (10.10A, 10.5V) = 101AH 5HR (17.5A, 10.5V) = 87.5AH 1HR (65.8A, 10.5V) = 65.8AH
Operating Temperature Range	Charge = -15°C to +55°C Discharge = -40°C to +65°C Storage = -20°C to +60°C
Approx. Weight	30.8 kg (68 lbs)
Max. Discharge	1200A
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 = 100A Float Use = 13.6V (-20mV/°C)
Dimensions (Nominal)	Length: 405mm (15.96 in) Width: 108mm (4.25 in) Height: 287mm (11.3 in) Total Height: 287mm (11.3 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

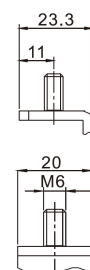
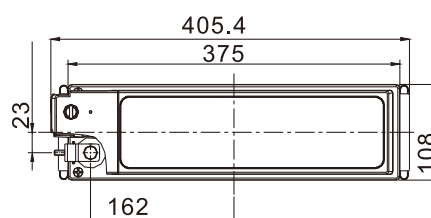
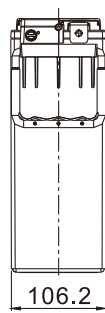
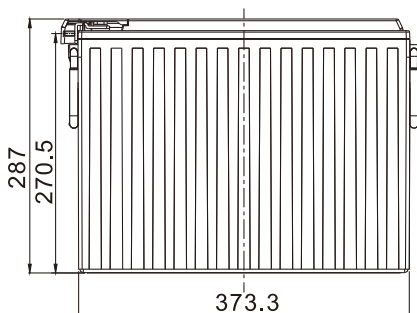
Multipurpose
Telecommunications
UPS
Medical Equipment

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

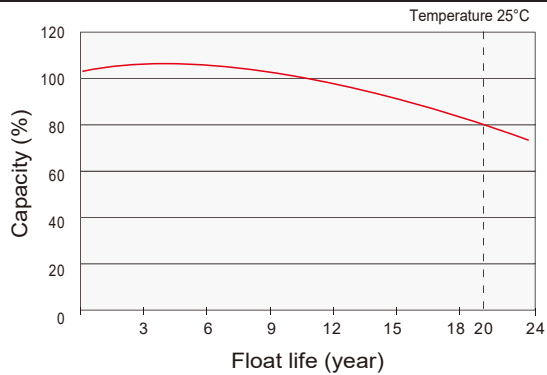
DC Power Supply
Auto Control System
Traffic Control Signaling
Emergency Lighting

Terminal Type

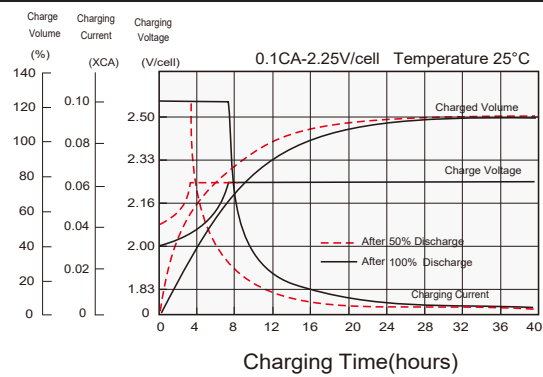
■ Terminal M



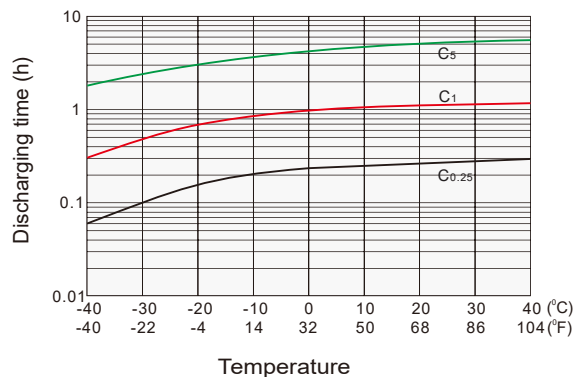
Float Life



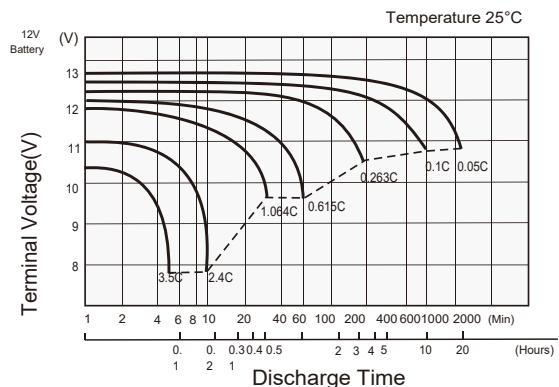
Float Charging Characteristics



Effect of Temperature on Discharging Time



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	10min	15min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	180.8	152.1	99.7	80.0	61.9	34.1	24.7	19.8	16.7	11.9	9.8	5.10
1.80V/cell	204.0	170.1	105.2	82.7	63.9	35.2	25.4	20.4	17.2	12.2	10.0	5.20
1.75V/cell	221.2	179.3	108.3	85.2	65.8	36.1	25.9	20.7	17.5	12.5	10.1	5.24
1.70V/cell	236.5	189.6	112.2	88.0	67.7	36.9	26.4	21.0	17.7	12.5	10.1	5.28
1.67V/cell	251.7	199.3	116.6	91.3	70.0	37.9	26.9	21.4	17.9	12.5	10.2	5.31
1.60V/cell	268.3	209.6	120.5	93.7	71.7	38.6	27.3	21.7	18.1	12.6	10.3	5.35

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

F.V/Time	10min	15min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	343.1	290.4	194.0	158.3	122.8	68.0	49.4	39.7	33.6	23.7	19.9	10.40
1.80V/cell	380.8	321.1	203.5	162.3	126.0	69.9	50.6	40.7	34.5	24.1	20.0	10.60
1.75V/cell	408.7	335.3	207.7	166.1	128.9	71.4	51.3	41.2	34.9	24.3	20.0	10.60
1.70V/cell	430.4	350.2	213.5	170.5	131.8	72.5	52.1	41.7	35.2	24.5	20.1	10.70
1.67V/cell	453.6	364.4	220.8	176.0	135.5	74.1	52.9	42.2	35.6	24.6	20.1	10.70
1.60V/cell	470.5	375.2	225.4	178.8	137.7	75.0	53.5	42.6	35.7	24.7	20.2	10.70