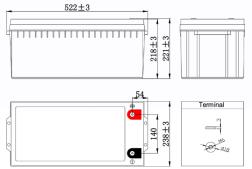
(12V 200Ah)



SPECIFICATION

Nominal Voltage	12V (6 cells in series)				
Rated Capacity	200Ah (C ₁₀ ,1.80V/cel				
Dimensions(mm)	Length Width Height Total Height	522±3 mm 238±3 mm 218±3 mm 221±3 mm			
Nominal Capacity @25℃ (Ah)	20 Hour rate (10.90A to 10.8 volt: 10 Hour rate (20.40A to 10.8 volt: 5 Hour rate (35.00A to 10.8 volt: 1 Hour rate (126.6A to 10.5 volt:	s) 204.0Ah s) 175.0Ah			
Approx. Weight	60 kg				
Terminal	T13				
Max.Discharge Current	Max.Discharge Current 1600A @25℃ (5s)				
Internal Resistance	3.5mΩ @25℃ (Full Charged Battery)				
DOD 80%	≥450 Cycles @25°C				
Ambient Temperature	Charge : -15 $^{\circ}$ C~50 $^{\circ}$ C Discharge : -20 $^{\circ}$ C~60 $^{\circ}$ C Storage : -20 $^{\circ}$ C~50 $^{\circ}$ C				
Container Material	A.B.S, UL94-HB, UL94-V0, Optional				
Self Discharge	Deep Cycle Battery can be stored for more than 6 months at 25°C. Self-Discharge ratio less than 3% per month at 25°C. Please charge batteries before using.				





CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A), (25 $^{\circ}$ C)

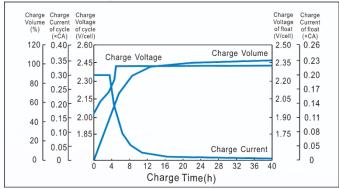
F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	680.0	453.0	362.8	225.0	130.0	77.70	55.20	36.96	24.84	21.20	11.60
1.70V/cell	610.0	417.0	345.0	219.0	128.2	76.70	54.20	36.08	24.44	20.90	11.30
1.75V/cell	550.0	385.0	329.0	213.0	126.6	75.70	53.60	35.54	24.20	20.70	11.10
1.80V/cell	490.0	351.0	309.0	204.8	124.0	74.66	53.00	35.00	23.84	20.40	10.90

CONSTANT WATTAGE DISCHARGE CHARACTERISTICS (WATT), (25°C)

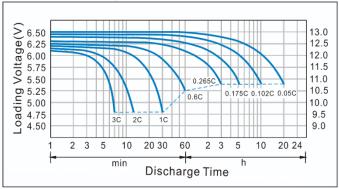
F.V/Time	5min	10min	15min	30min	60min	2H	3H	5H	8H	10H	20H
1.60V/cell	1173.0	807.9	659.1	420.0	249.2	151.5	109.5	73.49	49.43	42.22	23.18
1.70V/cell	1077.7	757.6	635.4	412.5	246.8	150.2	107.8	71.92	48.76	41.73	22.60
1.75V/cell	985.4	709.0	611.4	404.7	244.8	148.9	106.8	71.02	48.40	41.40	22.20
1.80V/cell	890.2	655.2	579.4	392.5	240.8	148.1	105.9	70.00	47.68	40.80	21.80



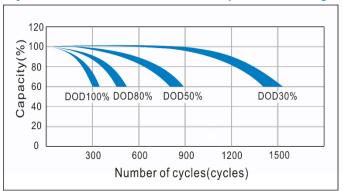
Charge Characteristics Curve



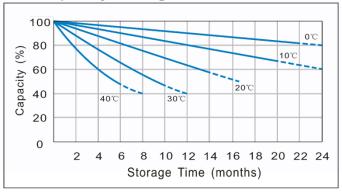
Discharge Characteristics Curve



Cycle service life in relation to depth of discharge



Capacity Storage Characteristics



CAPACITY FACTORS WITH DIFFERENT TEMPERATURE

Battery	type	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
CEL Bottom	6V & 12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
GEL Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
ACM Dettem	6V & 12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
AGM Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

MAINTENANCE & CAUTIONS

Charging Procedure:

Application	Charging method	Charge voltage at 25°C	Temperature compensation coefficient of charging voltage	Max.charging current	Temperature
For standby power source	Constant voltage charging	2.25~2.30 V/cell	−3mV/°C/cell	0.2CA	-15~50℃
For cycle service	(With current restriction)	2.40~2.45 V/cell	-4mV/°C/cell	0.3CA	-15~50 C

☑ Float service:

Every month, recommend inspection every battery voltage.

Every three months, recommend equalization charge for one time. Equalization charge method: Step 1:Discharge: 100% rate capacity discharge. Step 2:Charge: Max. Current 0.3CA, constant voltage 2.40-2.45V/Cell charge 24h.

Cycle service:

Avoid battery over discharge, especially battery sereis connection use.

Charged with recommend voltage, ensure battery can be full recharged.

Ingeneral, recharge capacity should be 1.1~1.15 times discharge capacity.

- ☑ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, Ambient temperature and charging voltage.
- ☑ Charge the batteries at least once every six months, if they are stored at 25°C.Charging Method:

Constant Voltage: -0.2C×2h+2.40~2.45V/cell×24h, Max. Current 0.25CA

Constant Current : $-0.2C \times 2h + 0.1C \times 12h$ Fast : $-0.2C \times 2h + 0.3C \times 4h$

Terminal of torque:

Bolt	M5	M6	M8
Terminal	T3、T10	T4、T7、T11、T12、T13	T5、T6、T8、T9、T14
Torque	6~7N.m	8~10N.m	10~12N.m

Note: The manufacturer reserves the right to change and modify the design and specifications without prior notice

EPCOM Power Line.