



Application

- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

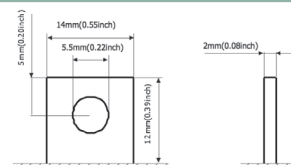
General Features

- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

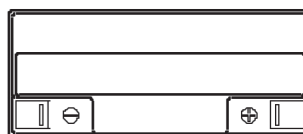
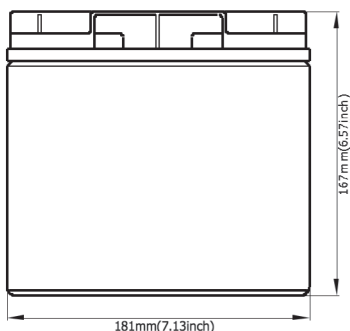
Construction

- Component **Raw material**
- Positive **Lead dioxide**
- Negative **Lead**
- Container **ABS**
- Cover **ABS**

- Sealant **Epoxy Resin**
- Safety valve **EPDR**
- Terminal **Copper**
- Separator **Fibre glass**
- Electrolyte **Sulfuric acid**



Terminal Dimensions

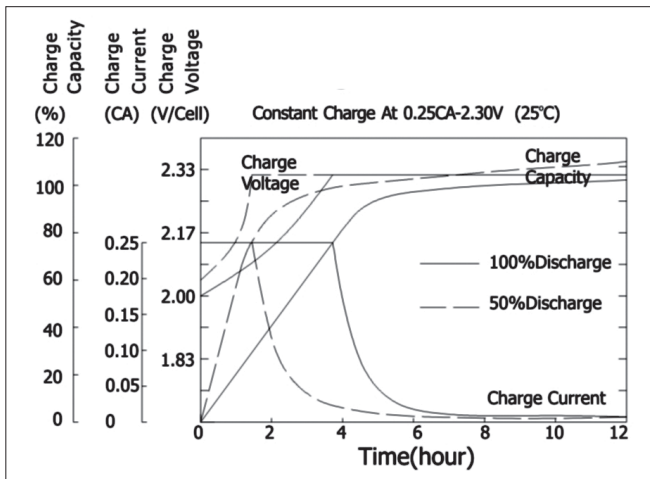


Battery Model

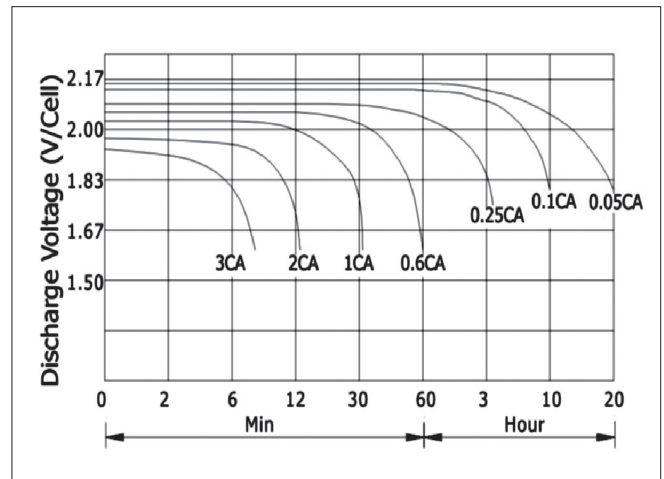
ESC17-12

Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(25 °C)	20HR(0.85A,10.5V)	10HR(1.58A,10.5V)	5HR(2.93A,10.5V)	1HR(10.6A,10.5V)
	17.0Ah	15.8Ah	14.65Ah	10.6Ah
Dimensions	Length	Width	Height	Total Height
	181mm(7.13inch)	77mm(3.03inch)	167mm(6.57inch)	167mm(6.57inch)
Approx. Weight	5.7Kg (12.57 lbs)			
Internal Resistance	Full charged at 25 °C: 0.012 Ohm			
Self Discharge	3% of capacity declined per month at (25 °C)			
Capacity Affected by Temp.(20HR)	40 °C	25 °C	0 °C	-15 °C
	102%	100%	85%	65%
Charge Voltage(25 °C)	Cycle use		Float use	
	14.4-15V(-30mV/ °C), max. Current: 5.1A		13.6-13.8V(-20mV/ °C)	

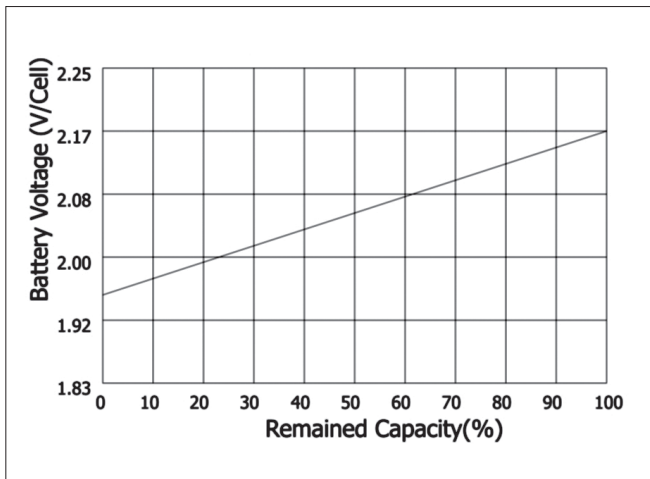
Charge Characteristic



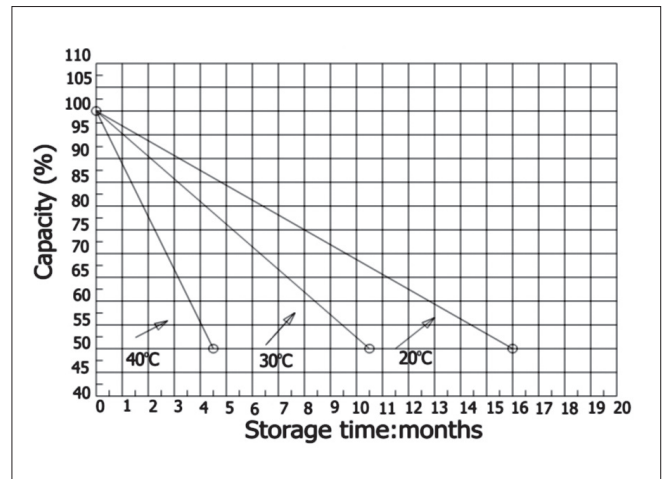
Discharge Characteristic (25 °C)



Relationship of OCV and state of charge



Cycle service life in relation to depth of discharge



Constant current discharge ratings-ampers at 25 °C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	53,9	35,2	27,3	15,1	11,7	10,3	3,48	1,84	1,01
1.67V	50,7	33,5	26,3	14,4	11,5	9,91	3,26	1,73	0,94
1.70V	46,4	32,2	25,7	13,2	11,1	9,25	2,98	1,60	0,89
1.75V	45,5	31,2	24,8	12,5	10,6	8,94	2,93	1,58	0,85
1.80V	40,7	29,8	22,6	11,5	9,92	8,59	2,75	1,50	0,77
1.85V	35,9	28,4	20,3	10,7	9,26	8,28	2,58	1,45	0,69

Constant power discharge ratings-watts at 25 °C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	94,6	62,2	48,4	27,0	22,0	19,6	6,64	3,72	2,04
1.67V	90,3	60,0	47,4	26,2	21,7	19,0	6,30	3,51	1,93
1.70V	84,2	58,8	47,0	24,2	21,3	17,9	5,84	3,25	1,80
1.75V	83,9	57,9	46,3	23,4	20,5	17,5	5,78	3,22	1,75
1.80V	76,2	56,1	42,7	22,0	19,5	16,9	5,49	3,08	1,57
1.85V	69,5	55,2	39,6	20,9	18,4	16,7	5,24	3,01	1,44