

BATTERY CONSTRUCTION

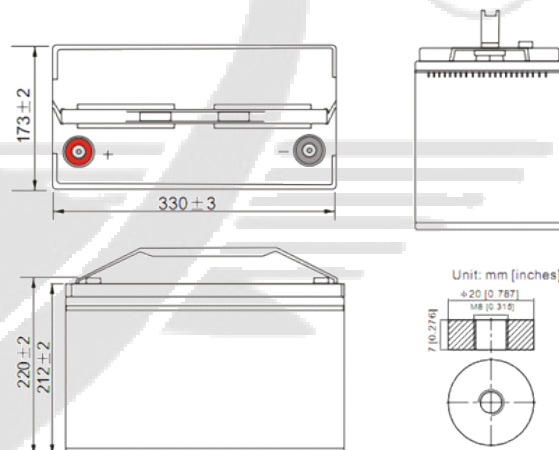
Component	Positive Plate	Negative Plate	Container	Cover	Safety Valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

TECHNOLOGY PARAMETER

Capacity 77°F (25℃)	20 hour rate (5.2A、10.5V)	104Ah
	10 hour rate (10A、10.5V)	100Ah
	5 hour rate (17.4A、10.5V)	87Ah
	1 hour rate (63.5A、9.6V)	63.5Ah
Internal Resistance	Full charged Battery77°F (25℃):4mΩ	
Capacity Affected By Temperature (20 hour rate)	104°F (40℃)	102%
	77°F (25℃)	100%
	32°F (10℃)	85%
	5°F (-15℃)	65%
Self-Discharge 77°F (25℃)	Capacity After 3 Month Storage : 90%	
	Capacity After 6 Month Storage : 80%	
	Capacity After 12 Month Storage : 60%	
Standard Terminal	F12	
Max. Discharge Current77°F (25℃): 800A(5S)		
Charge (Constant Voltage)	Float: 13.6～13.8 V/77°F/(25℃)	
	Cycle:14.5～14.9 V/77°F/(25℃)	
	Max. Current 25A	

SPECIFICATION

Nominal Voltage		12V
Rated Capacity		100AH
Dimension	Length	330mm/12.99inches
	Width	173mm/6.81inches
	Height	212mm/8.35inches
	Total Height (With Terminals)	220mm/8.66inches
Weight	Approx. 30.5kg/67.1lbs	



Discharge Constant Current(Amperes at 77°F / 25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	208.8	161.4	136.4	117.0	88.4	65.7	53.0	31.3	23.5	19.2	16.4	14.4	11.6	9.65	5.13
1.80V/cell	246.0	180.0	150.8	126.6	94.2	69.6	55.9	33.1	24.6	20.2	17.2	15.0	12.0	10.0	5.20
1.75V/cell	278.4	197.4	162.0	134.7	99.0	72.7	58.0	34.4	25.4	20.7	17.6	15.3	12.2	10.1	5.29
1.70V/cell	318.0	214.8	174.4	143.4	104.6	76.0	60.4	35.3	26.0	21.2	17.9	15.6	12.4	10.2	5.34
1.65V/cell	356.4	232.2	185.6	151.5	110.0	79.2	63.0	36.3	26.7	21.7	18.3	15.9	12.6	10.3	5.40
1.60V/cell	405.6	254.4	197.2	159.9	115.8	82.4	65.1	37.5	27.6	22.2	18.6	16.2	12.7	10.5	5.45

Discharge Constant Power(Watts at 77°F / 25°C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	381.8	298.1	254.5	220.5	168.5	126.4	102.2	60.8	45.7	37.5	32.2	28.2	22.9	19.1	10.15
1.80V/cell	445.0	328.6	277.6	235.1	176.8	132.7	107.2	63.8	47.7	39.2	33.6	29.4	23.7	19.8	10.29
1.75V/cell	492.9	354.6	294.6	247.8	184.3	137.3	110.8	66.0	49.1	40.1	34.3	29.9	24.0	19.9	10.45
1.70V/cell	547.4	377.1	312.7	261.8	193.6	143.0	115.0	67.6	50.1	41.0	34.8	30.4	24.3	20.1	10.54
1.65V/cell	604.8	403.9	330.2	274.5	201.9	147.7	119.1	69.2	51.3	41.8	35.3	30.8	24.6	20.3	10.64
1.60V/cell	672.4	432.4	345.1	286.6	211.1	152.9	122.4	71.1	52.7	42.6	35.9	31.3	24.8	20.5	10.73

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

