

BATTERY CONSTRUCTION

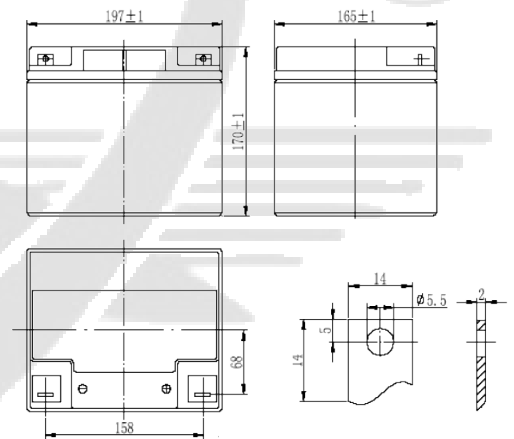
Component	Positive Plate	Negative Plate	Container	Cover	Safety Valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

TECHNOLOGY PARAMETER

Capacity 77°F (25℃)	20 hour rate (2.1A、10.5V)	42Ah
	10 hour rate (4A、10.5V)	40Ah
	5 hour rate (6.8A、10.5V)	34Ah
	1 hour rate (25A、9.6V)	25Ah
Internal Resistance	Full charged Battery77°F (25℃):10mΩ	
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	F4	
Max. Discharge Current77°F (25℃): 400A(5S)		
Charge (Constant Voltage)	Float: 13.6~13.8 V/77°F/(25℃)	
	Cycle:14.5~14.9 V/77°F/(25℃) Max. Current: 10A	

SPECIFICATION

Nominal Voltage		12V
Rated Capacity		40AH
Dimension	Length	197mm/7.76inches
	Width	165mm/6.5inches
	Height	170mm/6.65inches
	Total Height (With Terminals)	170mm/6.65inches
Weight	Approx. 13kg/28.6lbs	



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

End Point Volts / Cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1.60 V	130	92.0	72.0	42.0	25.0	10.2	7.00	4.14	2.18
1.65 V	123	87.4	69.3	40.7	24.2	10.1	6.90	4.09	2.17
1.70 V	118	82.7	66.5	39.1	23.3	10.0	6.85	4.05	2.15
1.75 V	109	78.1	63.2	37.2	22.1	9.85	6.80	4.00	2.13
1.80 V	100	71.0	58.0	34.9	20.8	9.71	6.70	3.95	2.10

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

End Point Volts / Cell	5 min	10 min	15 min	30 min	45 min	1 h	2 h	3 h	5 h
1.60 V	232	155	113	69.4	54.2	44.5	28.5	19.3	13.7
1.65 V	218	146	107	65.9	51.7	42.6	27.6	18.8	13.5
1.70 V	203	137	101	62.3	49.1	40.7	26.7	18.3	13.2
1.75 V	189	128	94.0	58.7	46.5	38.7	25.6	17.7	12.9
1.80 V	175	119	88.1	55.1	43.8	36.6	24.5	17.1	12.6

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

