

# Maintenance-Free Rechargeable Sealed Lead-Acid Battery

SB1683

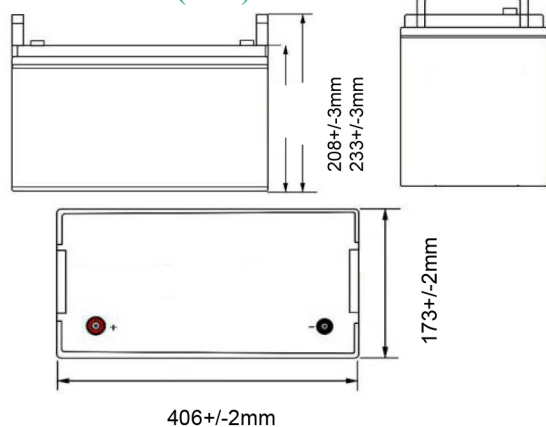
(12V120AH)

Specification



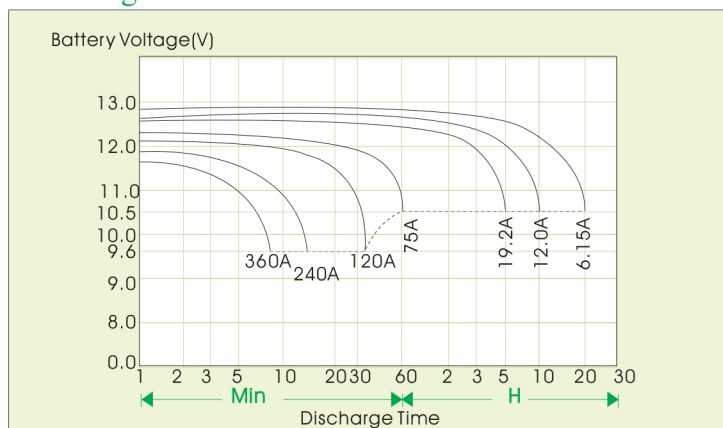
Capacity 25°C (77°F)	20hourrate (6.15A)	123AH
	10hourrate (12A)	120AH
	5hourrate (19.2A)	96AH
	1hourrate (75A)	75AH
Capacity affected by temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
	-15°C (5°F)	65%
Self-discharge at 25°C (77°F) (Before recharge)	Capacity after 3 month	91%
	Capacity after 6month	82%
	Capacity after 12month	64%
Constant voltage charge	Cycle	Initial Charging Current ≤ 36A 14.4V~15V at 25°C (77°F)
	Standby	13.5V~13.8V at 25°C (77°F)
Max discharge current for 5 seconds		1800A

## Dimensions(mm)



Nominal voltage		12V
Rated Capacity (10 HR)		120AH
Approx Weight		34.5kg
Terminal	Standard	13-M8
	Optional	
Operation Temperature		
Charge	0°C(32°F)~40°C(104°F)	
Discharge	-20°C(-4°F)~50°C(122°F)	
Storage	-20°C(-4°F)~40°C(104°F)	

## Discharge characteristic



Note: Discharge shall be cut-off at 10.5V if discharge at  $< 1C_A$  and at 9.6V if at  $\geq 1C_A$ . It is recommended to recharge battery by constant-voltage charge immediately after use.

## Constant current (Amp) and Constant Power (Watt) Discharge Table at 25°C (77°F)

Final voltage	Time (min)	5	10	15	20	30	60	120	180	300	600
		1.80VPC	A	437.71	295.24	204.76	159.14	130.76	74.82	48.38	25.98
	W	4596.00	3100.00	2150.00	1671.00	1373.00	752.95	508.00	272.79	196.87	111.40
1.75VPC	A	438.09	295.62	205.05	159.43	131.43	75.00	48.57	26.40	19.20	12.00
	W	4600.00	3104.00	2153.00	1674.00	1380.00	756.00	510.00	277.20	201.60	113.40
1.70VPC	A	438.48	295.90	205.43	159.71	131.71	75.18	48.85	26.72	19.51	12.14
	W	4604.00	3107.00	2157.00	1677.00	1383.00	758.94	513.00	280.56	204.85	115.71
1.65VPC	A	438.67	296.10	205.62	159.90	131.90	75.31	48.95	26.83	19.65	12.29
	W	4606.00	3109.00	2159.00	1679.00	1385.00	761.35	514.00	281.71	206.32	116.86
1.60VPC	A	438.86	296.23	205.71	160.00	132.00	75.46	49.05	26.95	19.74	12.46
	W	4608.00	3110.00	2160.0	1680.00	1386.00	763.66	515.00	282.97	207.27	117.81