

# Maintenance-Free Rechargeable Sealed Lead-Acid Battery

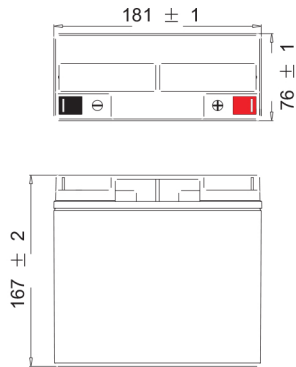
SB2490

(12V18AH)

## Specification



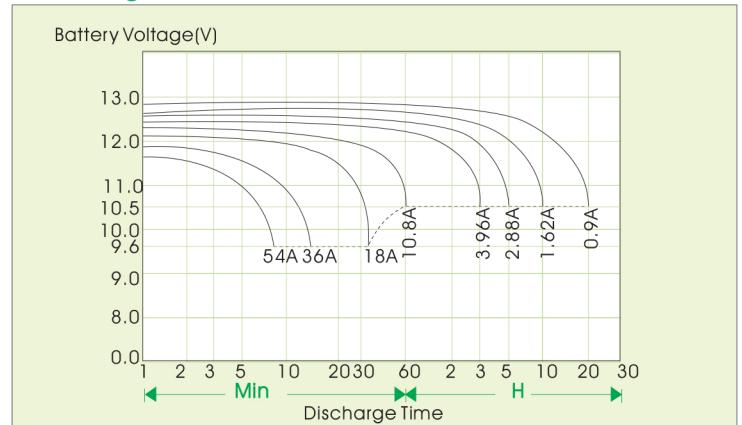
### Dimensions(mm)



Nominal voltage		12V
Rated Capacity (20 HR)		18AH
Approx Weight		5.24kg
Terminal	Standard	B1-M5
	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)	

Capacity 25°C (77°F)	20 hour rate (0.9A)	18AH
	10 hour rate (1.62A)	16.2AH
	5 hour rate (2.88A)	14.4AH
	1 hour rate (10.8A)	10.8AH
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 ≤ 5.4A 14.4V~15V at 25°C (77°F)
	Standby	13.5V~13.8V at 25°C (77°F)
Max discharge current for 5 se		270A

### 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	73.24	47.05	35.24	29.43	20.19	12.10	6.71	4.90
	W	769.00	494.00	370.00	309.00	212.00	127.00	70.50	51.50	33.50	18.50
1.75VPC	A	73.62	47.52	35.52	29.71	20.48	12.38	7.01	5.10	3.35	1.81
	W	773.00	499.00	373.00	312.00	215.00	130.00	73.66	53.57	35.21	19.00
1.70VPC	A	73.71	47.71	35.71	29.90	20.67	12.57	7.20	5.25	3.44	1.90
	W	774.00	501.00	375.00	314.00	217.00	132.00	75.60	55.19	36.18	20.00
1.65VPC	A	73.90	47.90	35.90	30.09	20.86	12.76	7.28	5.30	3.48	1.92
	W	776.00	503.00	377.00	316.00	219.00	134.00	76.46	55.62	36.60	20.20
1.60VPC	A	74.10	48.00	36.00	30.19	20.95	12.86	7.33	5.33	3.50	1.97
	W	778.00	504.00	378.00	317.00	220.00	135.00	77.00	56.00	36.83	20.60