

# Maintenance-Free Rechargeable Sealed Lead-Acid Battery

## DM12-2.2 (12V2.2AH)

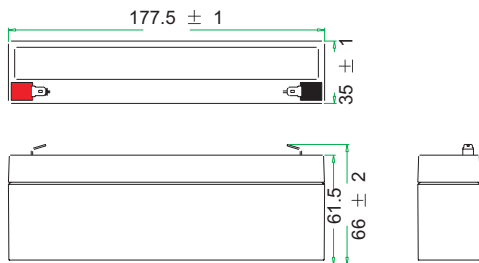
## Specification

### Application

- UPS
- Alarm and security system
- Toys



### Dimensions(mm)

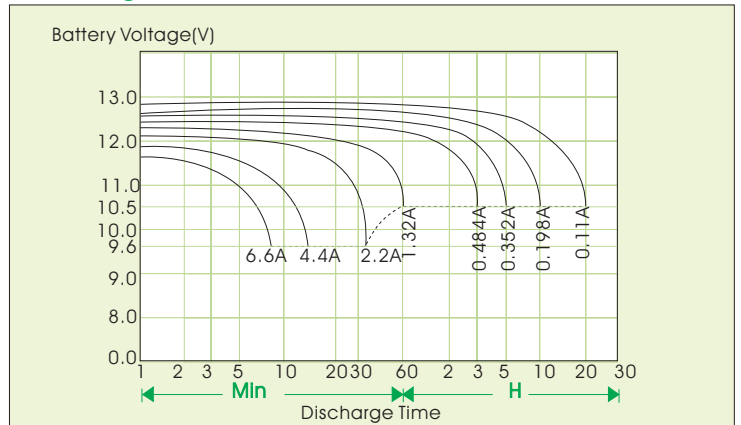


12v2.2

Nominal voltage		12V
Rated Capacity (20 HR)		2.2AH
Approx Weight		0.91 kg
Terminal	Standard	F3-TAB 187A
	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 (0.11A)	2.20AH
	10 hour rate (0.198A)	1.98AH
	5 hour rate (0.352A)	1.76AH
	1 hour rate (1.32A)	1.32AH
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 6 month	82%
	Capacity after 12 month	64%
Constant voltage charge	Cycle	Initial Charging Current ≤ 0.66A 14.4V~15V at 25°C (77°F)
	Standby	13.5V~13.8V at 25°C (77°F)
Max discharge current for 5 secondary		33A

### 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	8.48	5.05	3.75	3.00	2.05	1.19	0.82	0.42
	W	89.00	53.00	41.00	31.50	21.50	12.50	8.50	6.10	3.90	2.20
1.75VPC	A	8.67	5.24	3.87	3.19	2.19	1.32	0.86	0.48	0.35	0.19
	W	91.00	55.00	43.00	33.50	23.50	13.50	9.00	6.55	4.30	2.30
1.70VPC	A	9.19	5.62	3.98	3.48	2.25	1.38	0.88	0.53	0.41	0.23
	W	96.50	59.00	47.00	36.50	26.50	14.50	9.24	6.75	4.40	2.40
1.65VPC	A	9.38	5.81	4.12	3.67	2.35	1.57	0.89	0.58	0.42	0.24
	W	98.50	61.00	49.00	38.50	28.50	16.50	9.35	6.80	4.45	2.50
1.60VPC	A	9.52	5.91	4.40	3.81	2.43	1.71	0.90	0.62	0.43	0.25
	W	100.00	62.00	50.00	40.00	30.00	18.00	9.41	6.84	4.50	2.60