

# Maintenance-Free Rechargeable Sealed Lead-Acid Battery

## DM12-1.3 (12V1.3AH)

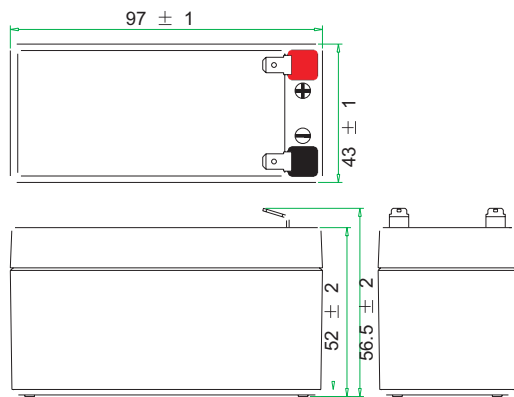
## Specification

### Application

- UPS
- Alarm and security system
- Toys



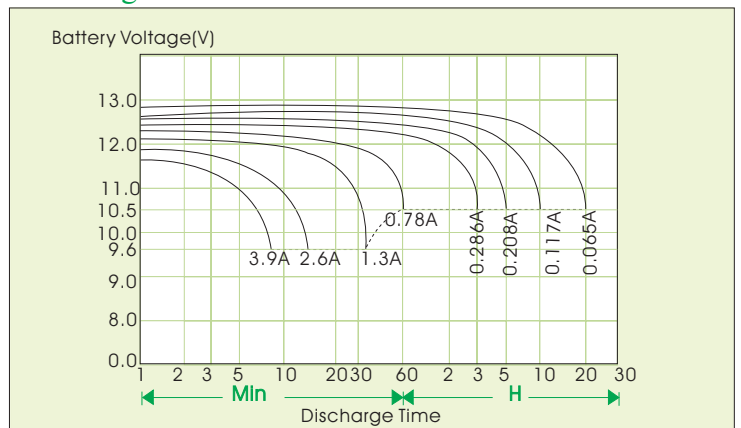
### Dimensions(mm)



Nominal voltage		12V
Rated Capacity (20 HR)		1.3AH
Approx Weight		0.57kg
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 (0.065A)	1.3AH
	10 hour rate (0.117A)	1.17AH
	5 hour rate (0.208A)	1.04AH
	1 hour rate (0.78A)	0.78AH
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 ≤ 0.39A 14.4V~15V at 25°C (77°F)
	Standby	13.5V~13.8V at 25°C (77°F)
Max discharge current for 5 secretary		19.5A

### 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	4.48	2.69	2.06	1.75	1.05	0.71	0.25	0.23
	W	47	28.2	21.6	18.2	11	6.2	2.6	1.6	0.8	1.15
1.75VPC	A	4.76	2.99	2.19	1.92	1.2	0.78	0.32	0.28	0.11	0.07
	W	50	31.4	23	20.2	12.6	7.6	3.4	2.4	1.2	1.25
1.70VPC	A	4.95	3.14	2.38	2	1.31	0.82	0.38	0.32	0.15	0.11
	W	52	33	25	21	13.8	8.2	4	3	1.6	1.3
1.65VPC	A	5.14	3.28	2.48	2.1	1.39	0.86	0.44	0.34	0.18	0.15
	W	54	34.2	26	22	14.6	9	4.6	3.6	2.1	1.4
1.60VPC	A	5.35	3.47	2.6	2.18	1.5	0.93	0.53	0.39	0.21	0.18
	W	56.1	36.4	27.3	22.88	15.74	9.72	5.6	4.14	2.7	1.5