

Maintenance-Free Rechargeable Sealed Lead-Acid Battery

DM12-4.5 (12V4.5AH)

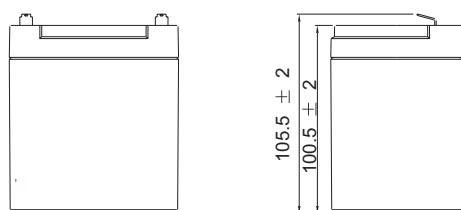
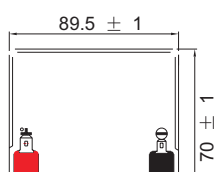
Specification

Application



- UPS
- Alarm and security system
- Toys

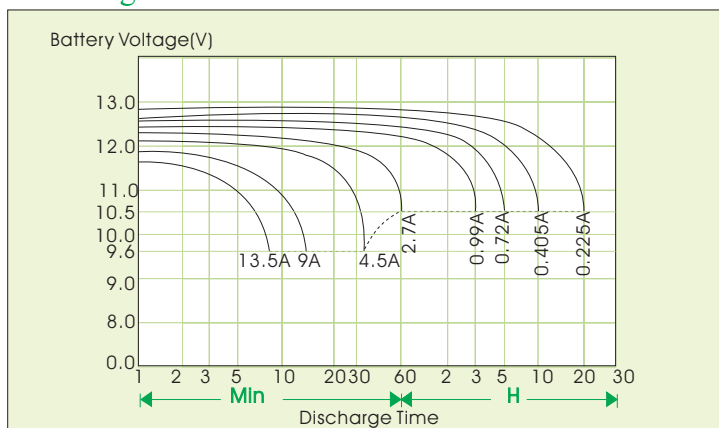
Dimensions(mm)



Nominal voltage		12V
Rated Capacity (20 HR)		4.5AH
Approx Weight		1.5kg
Terminal	Standard	F1-TAB 187E
	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 (0.225A)	4.5AH
	10 hour rate (0.405A)	4.05AH
	5 hour rate (0.72A)	3.6AH
	1 hour rate (2.7A)	2.7AH
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 ≤ 1.35A 14.4V~15V at 25°C (77°F)
	Standby	13.5V~13.8V at 25°C (77°F)
Max discharge current for 5 secondary		67.5A

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)

Time (min)		5	10	15	20	30	60	120	180	300	600
Final voltage	A	17.19	10.52	7.90	6.52	4.25	2.62	1.63	0.87	0.67	0.36
	W	180.50	110.50	83.00	68.50	48.50	29.50	17.10	12.50	8.10	4.50
1.80VPC	A	17.57	10.80	8.14	6.71	4.43	2.70	1.75	0.99	0.72	0.40
	W	184.50	113.50	85.50	70.50	50.50	30.50	18.41	13.39	8.80	5.13
1.75VPC	A	17.71	10.95	8.28	6.85	4.52	3.05	1.80	1.12	0.78	0.45
	W	186.00	115.00	87.00	72.00	52.00	32.00	18.90	13.80	9.05	5.16
1.70VPC	A	17.90	11.14	8.46	7.05	4.65	3.24	1.83	1.20	0.84	0.49
	W	188.00	117.00	89.00	74.00	54.00	34.00	19.12	13.91	9.15	5.30
1.65VPC	A	18.00	11.23	9.00	7.14	4.72	3.33	1.83	1.28	0.88	0.52
	W	189.00	118.00	90.00	75.00	55.00	35.00	19.25	13.99	9.21	5.45