

Maintenance-Free Rechargeable Sealed Lead-Acid Battery

DM12-12 (12V12AH)

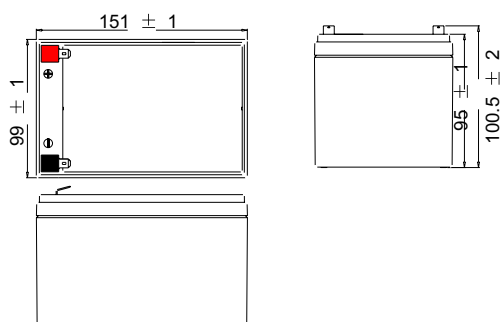
Specification



Application

- UPS
- Toys
- Power tools
- Medical Equipment
- Control Equipment
- Communication Equipment
- Alarm and security system

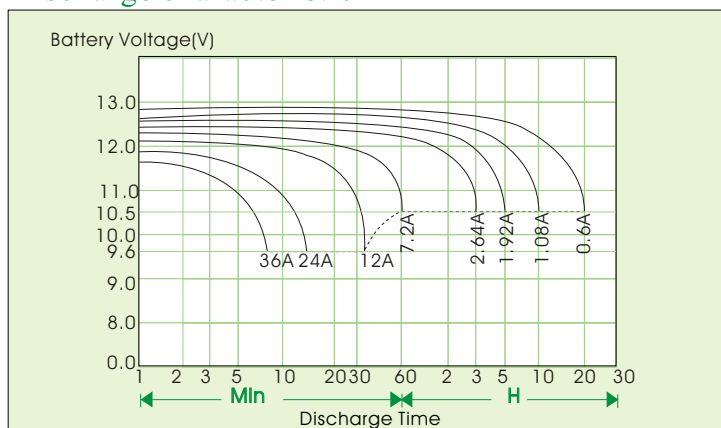
Dimensions(mm)



Nominal voltage		12V
Rated Capacity (20 HR)		12AH
Approx Weight		3.20kg
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 (0.6A)	12AH
	10 hour rate (1.08A)	10.8AH
	5 hour rate (1.92A)	9.6AH
	1 hour rate (7.2A)	7.2AH
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 ≤ 3.6A 14.4V ~ 15V at 25°C (77°F)
	Standby	13.5V ~ 13.8V at 25°C (77°F)
Max discharge current for 5 secondary		180A

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											
1.80VPC	A	48.19	28.48	23.29	19.38	13.14	6.99	4.47	2.43	1.81	0.96
	W	506.00	299.00	244.50	203.50	138.00	85.00	47.00	33.00	21.00	11.50
1.75VPC	A	48.57	31.62	23.57	19.67	13.43	7.20	4.67	2.64	1.92	1.08
	W	510.00	332.00	247.50	206.50	141.50	87.50	49.10	35.71	23.47	13.40
1.70VPC	A	48.76	31.81	23.71	19.81	13.62	7.45	4.78	2.81	2.03	1.16
	W	512.00	334.00	249.00	208.00	143.00	89.00	50.40	36.79	24.12	13.50
1.65VPC	A	48.95	30.68	23.90	20.00	13.81	7.63	4.85	3.02	2.12	1.24
	W	514.00	336.00	251.00	210.00	145.00	91.00	50.98	37.08	24.40	13.60
1.60VPC	A	49.04	32.00	24.00	20.09	13.90	7.85	4.93	3.18	2.20	1.31
	W	515.00	336.00	252.00	211.00	146.00	92.00	51.34	37.30	24.60	13.80