

Maintenance-Free Rechargeable Sealed Lead-Acid Battery

DM12-7 (12V7AH)

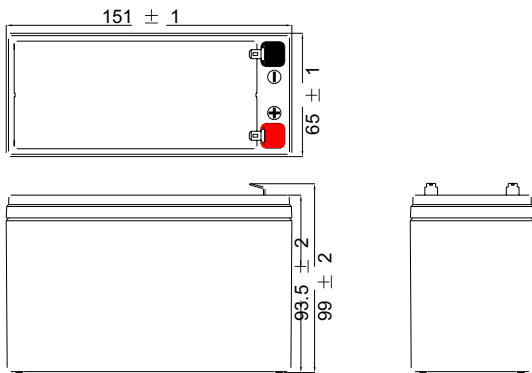
Specification



Application

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

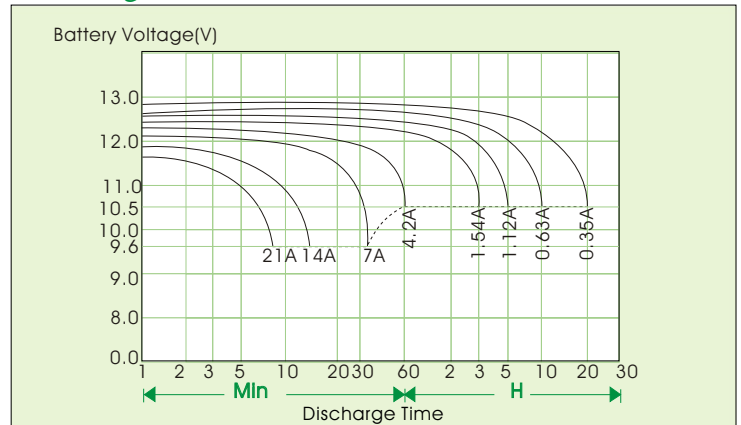
Dimensions(mm)



Nominal voltage		12V
Rated Capacity (20 HR)		7AH
Approx Weight		1,90kg
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 (0.35A)	7AH
	10 hour rate (0.63A)	6.3AH
	5 hour rate (1.12A)	5.6AH
	1 hour rate (4.2A)	4.2AH
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 ≤ 2.1A 14.4V ~ 15V at 25°C (77°F)
	Standby	13.5V ~ 13.8V at 25°C (77°F)
Max discharge current for 5 secondary		105A

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	25.68	16.08	12.96	9.90	6.80	3.71	2.06	1.50
	W	268.58	168.95	125.63	103.97	71.48	38.99	21.66	15.16	9.75	5.85
1.75VPC	A	26.09	16.70	13.37	10.40	7.17	4.20	2.11	1.54	1.12	0.63
	W	274.00	175.45	129.96	108.30	73.21	42.02	22.74	16.79	10.29	6.06
1.70VPC	A	26.30	16.91	13.58	10.52	7.12	4.32	2.17	1.58	1.15	0.72
	W	276.17	177.61	132.13	110.47	74.73	43.32	23.28	17.33	10.83	6.28
1.65VPC	A	26.51	17.11	13.79	10.68	7.32	4.42	2.25	1.62	1.18	0.78
	W	278.33	179.78	134.29	112.09	76.89	46.35	24.37	17.87	11.37	6.50
1.60VPC	A	26.74	17.33	14.00	10.94	7.48	4.62	2.31	1.66	1.21	0.83
	W	280.50	181.94	136.46	114.36	78.63	48.52	25.21	18.63	12.04	6.74