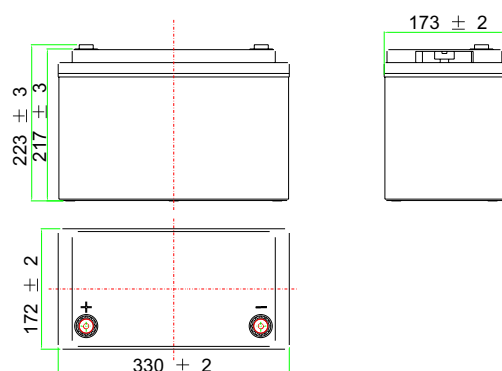


Maintenance-Free Rechargeable Sealed Lead-Acid Battery

DMD12-100 GEL (12V100AH) Specification



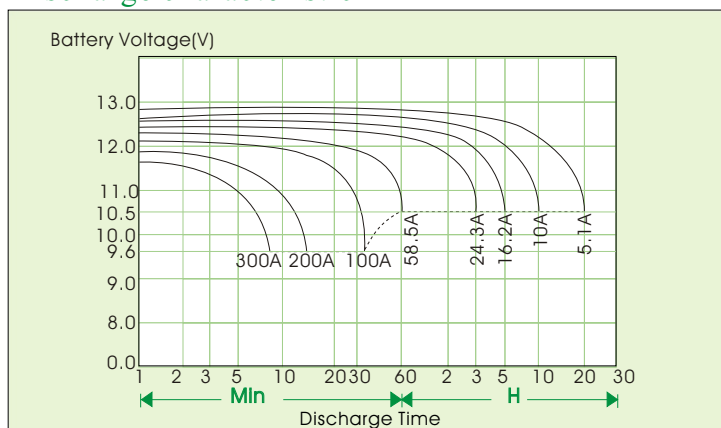
Dimensions(mm)



Nominal voltage		12V
Rated Capacity (10 HR)		100AH
Approx Weight		31.50kg
Terminal	Standard	I3-M8 Insert
	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 (5.1A)	102AH
	10 hour rate (10A)	100AH
	5 hour rate (16.2A)	81AH
	1 hour rate (58.5A)	58.5AH
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 ≤ 30A 14.4V ~ 15V at 25°C (77°F)
	Standby	13.5V ~ 13.8V at 25°C (77°F)
Max discharge current for 5 sec		1000A

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	364.38	245.71	170.57	132.38	109.14	68.76	39.33	27.90	19.33	10.86
	W	3826.00	2580.00	1791.00	1390.00	1146.00	722.00	413.00	293.00	203.00	114.00
1.80VPC	A	364.86	246.95	170.85	132.76	109.43	68.95	39.52	28.09	19.52	11.05
	W	3831.00	2584.00	1794.00	1394.00	1149.00	724.00	415.00	295.00	205.00	116.00
1.75VPC	A	365.33	246.47	171.14	133.05	109.71	69.24	39.81	28.38	19.80	11.24
	W	3836.00	2588.00	1797.00	1397.00	1152.00	727.00	418.00	298.00	208.00	118.00
1.70VPC	A	365.52	246.76	171.33	133.24	109.90	69.43	39.90	28.48	19.90	11.33
	W	3838.00	2591.00	1799.00	1399.00	1154.00	729.00	419.00	299.00	209.00	119.00
1.65VPC	A	365.71	246.86	171.43	133.33	110.00	69.50	40.00	28.57	20.00	11.40
	W	3840.00	2592.00	1800.00	1400.00	1155.00	730.00	420.00	300.00	210.00	120.00