



NP121000

General Purpose AGM Battery

General Features

- Oxygen recombination technology: maintenance-free, no need to add water or acid
- The patent grid alloy: less gassing, low self-discharge, excellent corrosion resistance
- Design life is 6~9 years at 25°C under standby application, deep discharge recoverability
- High quality AGM separator: extend cycle life and prevent micro short circuit
- ABS container: increase the strength of battery



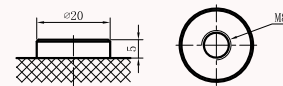
Application

- Uninterrupted Power Supply
- Emergency Power Supply
- Power Tools
- Security System
- Communication Equipment
- Fire Alarm
- Factory automation equipment
- Portable Electric Device

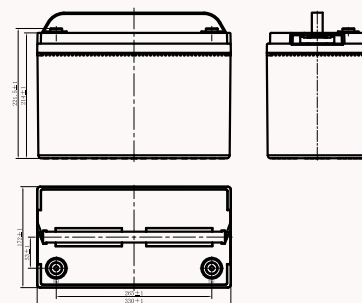
Specification

Nominal Voltage	12V
Nominal Capacity	100 Ah, C20@1.80Vpc, 25°C (77°F)
Dimension	Length 330mm (12.99 inch)
	Width 172mm (6.77 inch)
	Container Height 214mm (8.43 inch)
	Total Height (With Terminal) 221.5mm (8.72 inch)
Rated Capacity (25°C/77°F)	100 Ah/(20Hr, 1.80V/cell)
	95 Ah/(10Hr, 1.80V/cell)
	83 Ah/(5Hr, 1.75V/cell)
	74 Ah/(3Hr, 1.75V/cell)
Weight	60 Ah/(1Hr, 1.70V/cell)
	29.5 Kg ±5% (65.04 lbs)
	Terminal M8
Container Material	ABS
Operating Temp. Range	Discharge: -20 to +50°C(-4~122°F)
	Charge: -20 to +50°C(-4~122°F)
	Storage: -20 to +50°C(-4~122°F)
Capacity affected by Temperature	102% @ 40°C(104°F)
	100% @ 25°C(77°F)
	85% @ 0°C(32°F)
	65% @ -15°C(5°F)

Terminal Unit:mm



Dimension Unit:mm



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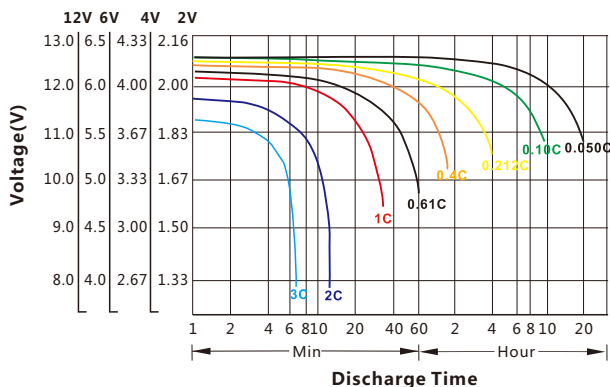
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Charge Performance

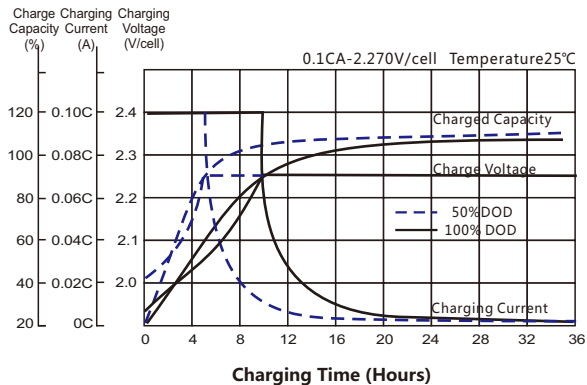
Constant Current Discharge Table (25°C/77°F) Unit: A														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	147.3	128.3	110.8	84.58	64.13	53.21	31.74	23.19	18.43	15.55	13.61	10.96	9.20	4.91
1.80V/cell	172.5	144.1	120.8	89.59	68.18	55.84	33.13	24.14	19.26	16.19	14.13	11.29	9.45	5.00
1.75V/cell	189.6	156.6	128.3	94.72	71.38	57.98	33.97	24.70	19.63	16.56	14.45	11.53	9.65	5.10
1.70V/cell	204.5	163.3	133.2	99.32	73.71	59.85	34.52	25.08	20.02	16.84	14.68	11.73	9.83	5.21
1.65V/cell	215.6	169.9	138.5	102.64	75.80	61.27	35.27	25.45	20.39	17.11	14.86	11.84	9.96	5.30
1.60V/cell	228.3	178.7	145.4	107.62	78.50	62.65	35.83	25.91	20.67	17.39	15.05	11.97	10.10	5.40

Constant Power Discharge Table (25°C/77°F) Unit: W														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	279.0	246.0	215.0	166.5	127.2	105.9	63.80	46.91	37.43	31.71	27.81	22.48	18.91	10.11
1.80V/cell	325.7	275.5	275.5	175.8	134.9	110.9	66.36	48.64	38.99	32.91	28.79	23.10	19.34	10.26
1.75V/cell	356.8	298.4	298.4	185.3	140.8	114.8	67.83	49.61	39.62	33.56	29.38	23.54	19.72	10.45
1.70V/cell	383.6	310.0	310.0	193.7	145.1	118.3	68.77	50.23	40.29	34.03	29.73	23.85	19.99	10.61
1.65V/cell	403.1	321.8	321.8	199.6	148.9	120.8	70.04	50.82	40.91	34.47	30.02	24.00	20.23	10.77
1.60V/cell	424.8	336.9	336.9	208.3	153.5	123.1	70.94	51.59	41.32	34.90	30.29	24.16	20.42	10.95

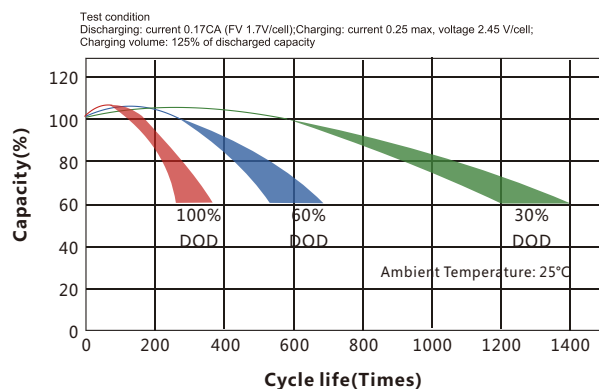
Discharge Characteristics(25 °C)



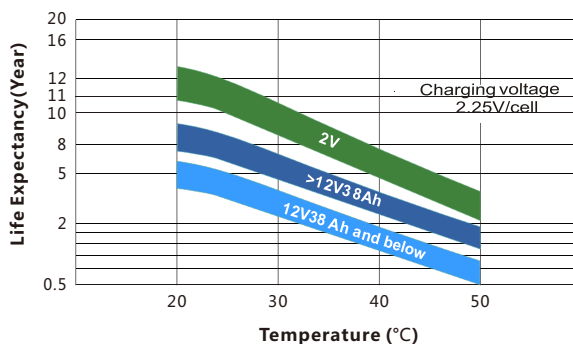
Charge Characteristics (20°C)



Cycle Lives With Depth Of Discharge



Float Life at Different Temperature



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