



NP12120

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 3~5 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



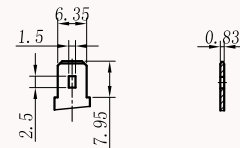
Application

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

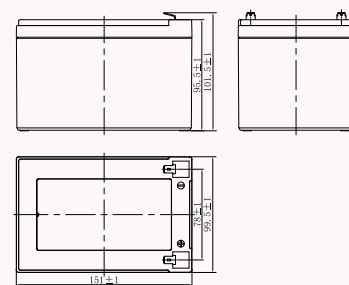
Specification

Nominal Voltage	12V
Nominal Capacity	12 Ah, C20@1.80Vpc, 25°C (77°F)
Dimension	Length 151mm (5.94 inch)
	Width 99.5mm (3.91 inch)
	Container Height 95.5mm (3.76 inch)
	Total Height (With Terminal) 101.5mm (3.99 inch)
Rated Capacity (25°C/77°F)	12 Ah/(20Hr, 1.80V/cell)
	11 Ah/(10Hr, 1.80V/cell)
	10 Ah/(5Hr, 1.75V/cell)
	8.5 Ah/(3Hr, 1.75V/cell)
Weight	7.0 Ah/(1Hr, 1.70V/cell)
	3.60 Kg ±5% (7.94 lbs)
	Terminal Tab F2
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



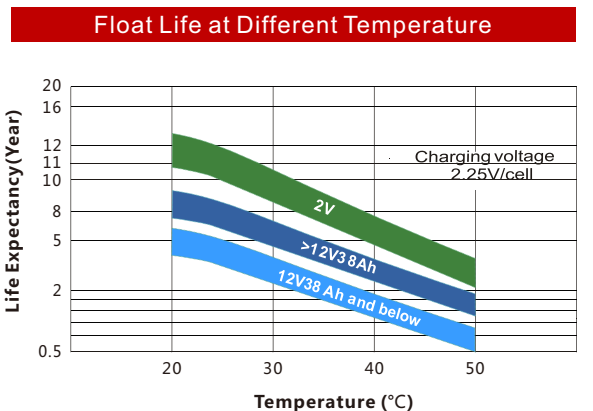
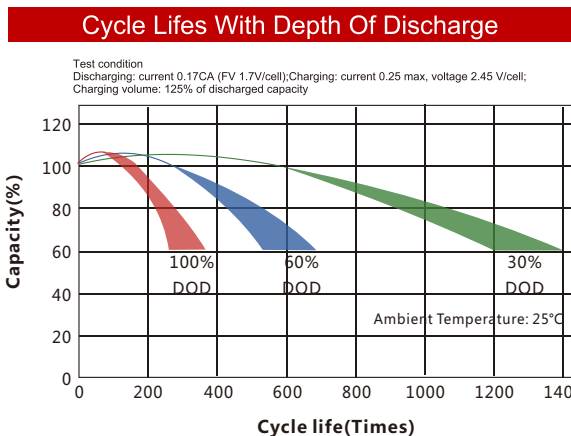
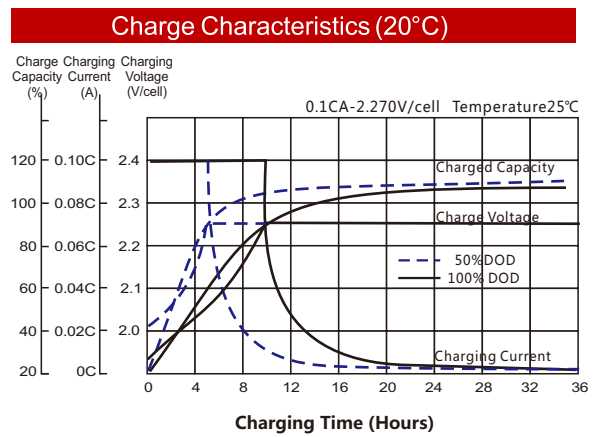
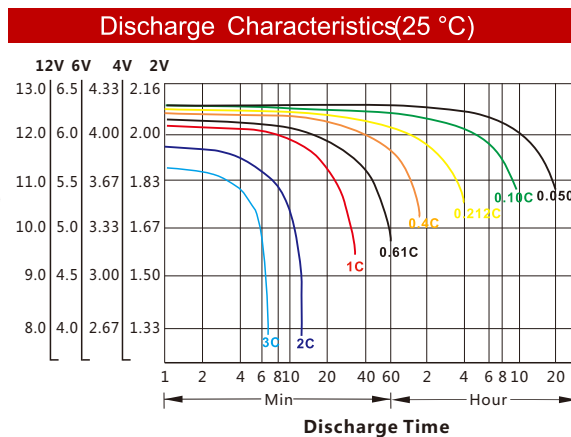
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Charge Performance

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	25.17	20.98	17.24	12.04	8.36	6.51	3.68	2.69	2.21	1.90	1.66	1.34	1.110	0.592
1.80V/cell	26.61	21.80	17.65	12.36	8.56	6.67	3.75	2.76	2.27	1.95	1.70	1.38	1.138	0.600
1.75V/cell	27.36	22.34	18.09	12.65	8.79	6.83	3.84	2.84	2.32	1.99	1.74	1.41	1.162	0.616
1.70V/cell	27.98	22.80	18.54	12.93	9.06	7.03	3.96	2.91	2.39	2.05	1.79	1.45	1.188	0.627
1.65V/cell	28.86	23.30	19.02	13.20	9.24	7.18	4.06	2.98	2.43	2.09	1.83	1.47	1.205	0.638
1.60V/cell	30.10	24.17	19.63	13.59	9.47	7.36	4.21	3.07	2.51	2.14	1.88	1.51	1.235	0.649

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	47.67	40.24	33.44	23.69	16.58	12.96	7.39	5.43	4.49	3.87	3.38	2.75	2.280	1.219
1.80V/cell	50.25	41.68	34.13	24.25	16.93	13.24	7.51	5.55	4.59	3.96	3.47	2.81	2.239	1.232
1.75V/cell	51.49	42.56	34.84	24.75	17.33	13.52	7.67	5.70	4.69	4.04	3.54	2.88	2.374	1.260
1.70V/cell	52.49	43.30	35.57	25.21	17.84	13.91	7.88	5.82	4.80	4.13	3.63	2.95	2.416	1.278
1.65V/cell	53.96	44.13	36.40	25.68	18.15	14.16	8.06	5.95	4.88	4.21	3.69	2.99	2.447	1.297
1.60V/cell	55.99	45.56	37.40	26.31	18.52	14.46	8.34	6.12	5.01	4.30	3.78	3.05	2.496	1.317



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