

SPECIFICATIONS

Rated Voltage	12V
Nominal Capacity	9.0Ah (C ₂₀ , 1.75V/cell)
Dimension	Length 151±2mm (5.95 inches)
	Width 65±1mm (2.56 inches)
	Container Height 93.5±1mm (3.68 inches)
	Total Height 99.5±1mm (3.92 inches)
Approx Weight	2.52 Kg (5.56 lbs)
Terminal	T2
Container Material	ABS
	9.00 Ah (20hr,0.450A,1.75V/cell)
	8.51 Ah (10hr,0.851A,1.75V/cell)
Rated Capacity (25°C)	7.75 Ah (5hr,1.55A,1.75V/cell)
	6.90 Ah (3hr,2.30A,1.75V/cell)
	5.98 Ah (1hr,5.98A,1.60V/cell)
Max. Discharge Current	135A (5s)
Internal Resistance (25°C)	Approx 17mΩ
Operating Temp.Range	Discharge -15~50°C (5~122°F)
	Charge -20~40°C (-4~104°F)
	Storage -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 2.70A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
Standby Use	Initial Charging Current less than 2.70A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	N series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



APPLICATIONS

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- IATF16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.2	20.7	16.1	12.9	9.34	6.72	5.41	3.08	2.22	1.77	1.51	1.29	1.02	0.832	0.440
1.80V/cell	32.4	21.9	16.9	13.4	6.63	6.90	5.54	3.14	2.26	1.80	1.53	1.31	1.03	0.843	0.445
1.75V/cell	34.2	22.8	17.4	13.8	9.88	7.05	5.66	3.19	2.30	1.82	1.55	1.33	1.04	0.851	0.450
1.70V/cell	35.8	23.7	18.0	14.2	10.1	7.21	5.76	3.24	2.33	1.85	1.57	1.34	1.05	0.860	0.454
1.65V/cell	37.0	24.4	18.5	14.5	10.3	7.32	5.85	3.28	2.35	1.86	1.58	1.35	1.06	0.866	0.457
1.60V/cell	39.3	25.4	19.1	14.9	10.6	7.50	5.98	3.34	2.40	1.90	1.61	1.37	1.08	0.877	0.462

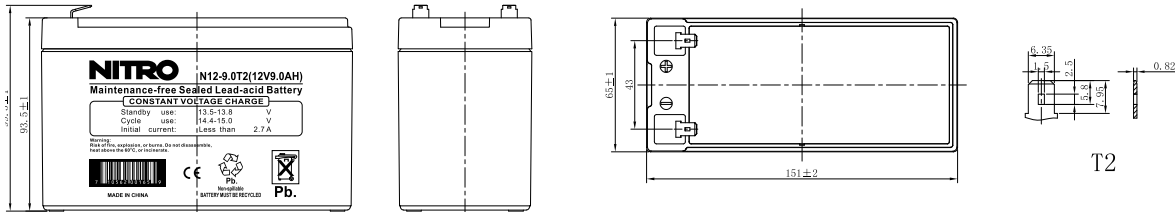
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	57.1	39.4	30.8	24.8	18.1	13.0	10.5	6.03	4.37	3.49	2.98	2.55	2.02	1.65	0.880
1.80V/cell	60.8	41.4	32.1	25.7	18.5	13.3	10.8	6.13	4.43	3.53	3.02	2.59	2.04	1.67	0.890
0.890	63.3	42.8	33.0	26.2	18.9	13.6	10.9	6.22	4.49	3.58	3.05	2.62	2.06	1.69	0.900
1.70V/cell	65.7	44.2	33.9	26.9	19.3	13.8	11.1	6.30	4.55	3.62	3.09	2.64	2.08	1.71	0.907
1.65V/cell	67.4	45.2	34.6	27.4	19.6	14.0	11.2	6.36	4.59	3.65	3.11	2.67	2.10	1.72	0.914
1.60V/cell	70.1	46.5	35.6	28.0	20.0	14.3	11.4	6.46	4.66	3.71	3.15	2.70	2.13	1.74	0.924

GENERAL FEATURES

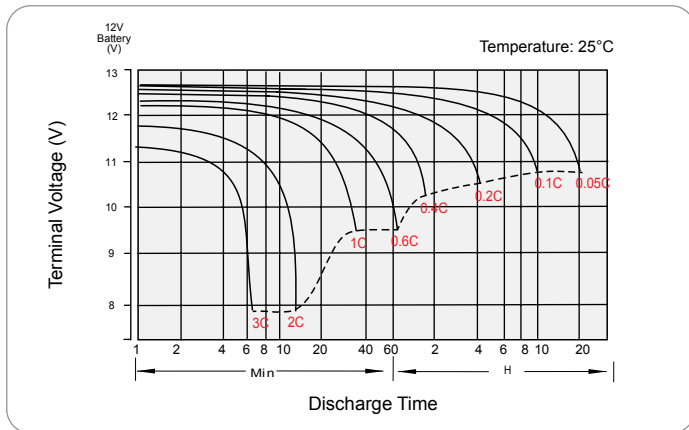
- 5 years design life (25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

DIMENSIONS

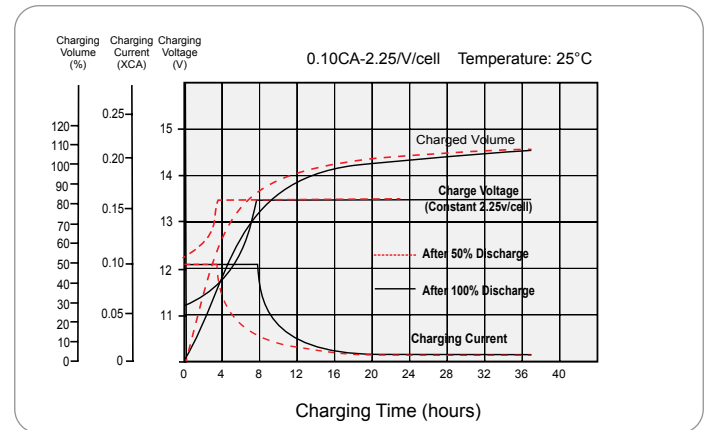


PERFORMANCE CHARACTERISTICS

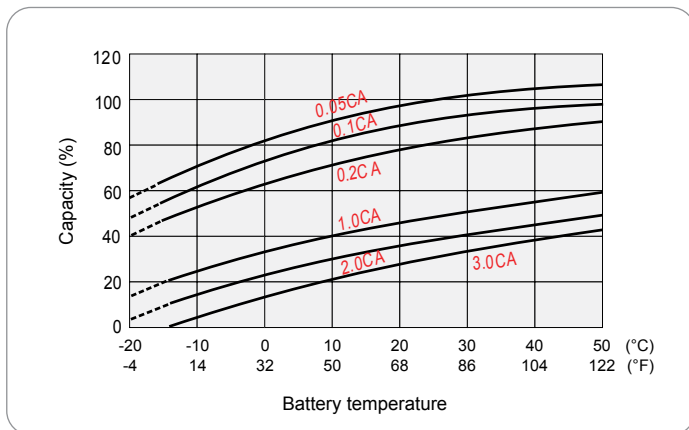
Discharge Characteristics



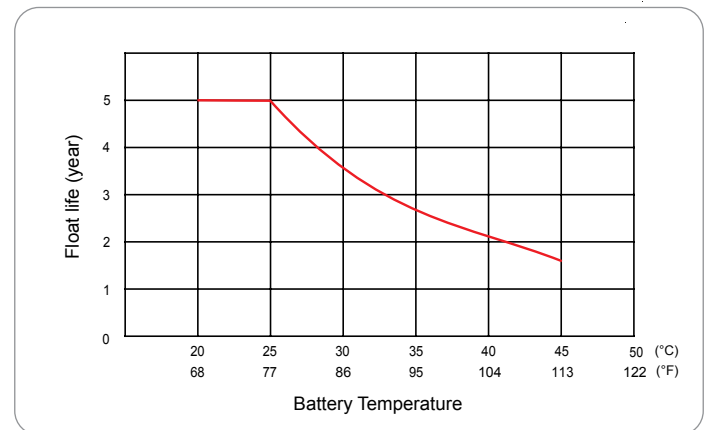
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



NITRO

VALVE REGULATED LEAD-ACID BATTERY
N12-9.0T2