

SPECIFICATIONS

Rated Voltage	12V	
Nominal Capacity	7.6Ah (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	2.50 Kg (5.51 lbs)	
Terminal	T2	
Container Material	ABS	
Rated Capacity (25°C)	7.60 Ah	(20hr, 0.380A, 1.75V/cell)
	7.19 Ah	(10hr, 0.719A, 1.75V/cell)
	6.65 Ah	(5hr, 1.33A, 1.75V/cell)
	6.21 Ah	(3hr, 2.07A, 1.75V/cell)
	5.65 Ah	(1hr, 5.65A, 1.60V/cell)
Max. Discharge Current	114A (5s)	
Internal Resistance (25°C)	Approx 20mΩ	
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 2.28A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 2.28A. 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	NITRO 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
- Manufactured in IATF 16949, 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	1h30	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	27.9	19.2	14.6	11.9	8.73	6.31	5.11	3.69	2.84	2.00	1.56	1.30	1.09	0.859	0.702	0.371
1.80V/cell	30.0	20.3	15.4	12.4	9.00	6.48	5.23	3.76	2.90	2.04	1.59	1.32	1.11	0.871	0.712	0.376
1.75V/cell	31.6	21.1	15.9	12.6	9.23	6.62	5.35	3.83	2.95	2.07	1.61	1.33	1.12	0.881	0.719	0.380
1.70V/cell	33.2	21.9	16.4	13.0	9.47	6.77	5.44	3.90	2.99	2.10	1.62	1.35	1.13	0.890	0.726	0.383
1.67V/cell	34.3	22.6	16.8	13.3	9.60	6.88	5.53	3.94	3.03	2.12	1.64	1.36	1.14	0.897	0.732	0.386
1.60V/cell	36.4	23.6	17.4	13.7	9.88	7.05	5.65	4.03	3.09	2.17	1.67	1.39	1.16	0.909	0.741	0.390

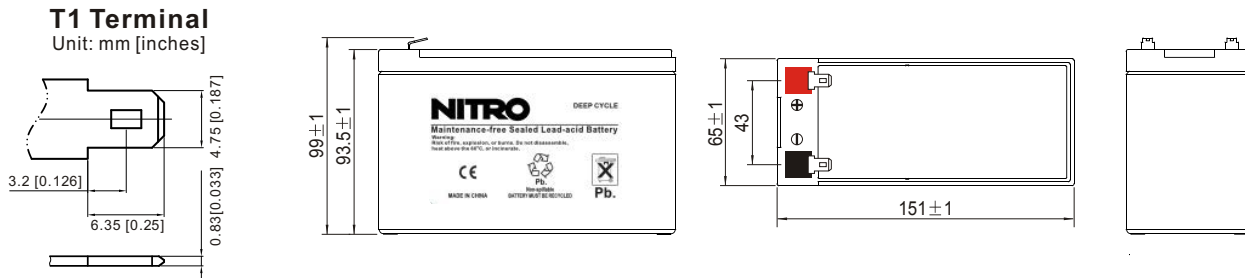
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1h30	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	52.9	36.5	28.0	22.8	16.9	12.3	10.0	7.19	5.57	3.94	3.08	2.57	2.16	1.70	1.40	0.743
1.80V/cell	56.3	38.4	29.3	23.7	17.3	12.5	10.2	7.32	5.66	4.00	3.12	2.59	2.19	1.73	1.42	0.751
1.75V/cell	58.7	39.6	30.0	24.1	17.7	12.7	10.4	7.43	5.75	4.06	3.15	2.62	2.21	1.75	1.43	0.760
1.70V/cell	60.9	40.9	30.9	24.7	18.1	13.0	10.5	7.54	5.81	4.10	3.19	2.66	2.23	1.76	1.44	0.767
1.67V/cell	62.4	41.9	31.5	25.2	18.3	13.2	10.6	7.62	5.87	4.14	3.22	2.68	2.25	1.78	1.45	0.772
1.60V/cell	65.0	43.1	32.4	25.8	18.7	13.4	10.8	7.75	5.97	4.21	3.27	2.71	2.28	1.80	1.46	0.781

GENERAL FEATURES

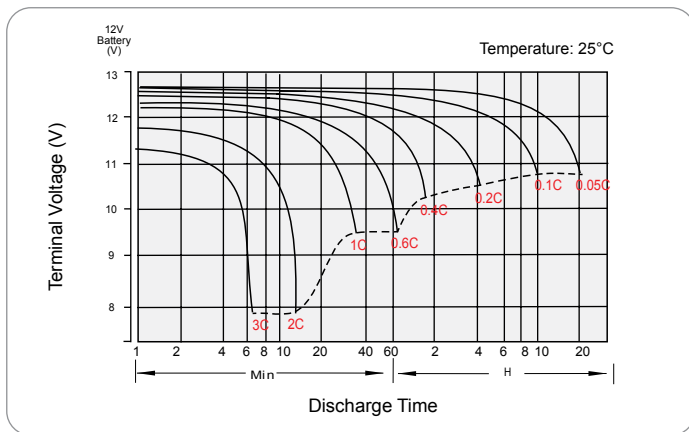
- 5 years design life (25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High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

DIMENSIONS

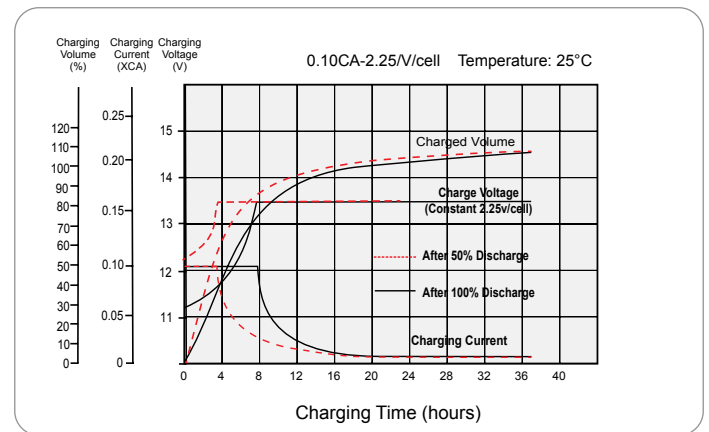


PERFORMANCE CHARACTERISTICS

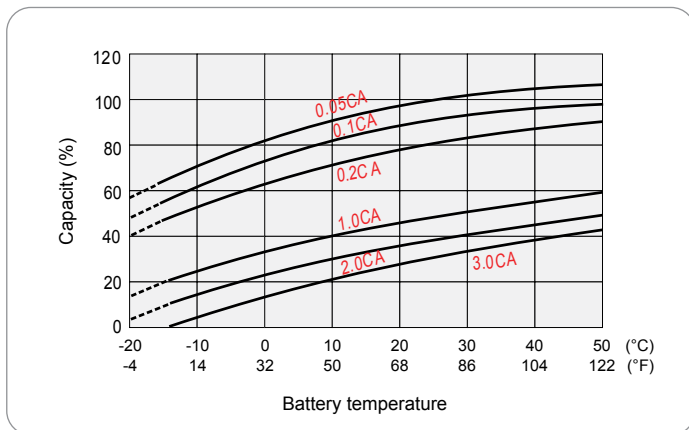
Discharge Characteristics



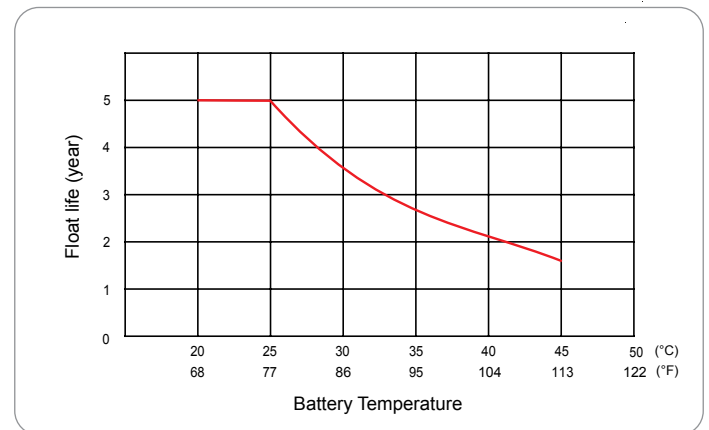
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



NITRO

VALVE REGULATED LEAD-ACID BATTERY

N12-7.6T1