

NITRO

HIGH RATE

VALVE REGULATED LEAD-ACID BATTERY

NHR36WT2FR

SPECIFICATIONS

Rated Voltage	12 V	
Nominal Rate	36 W/cell @15 min. rate to 1.67 V, 25°C (77°F)	
Nominal Capacity	8.0 Ah, 20 hr rate to 1.75 V/cell	
Dimensions	Length	151 mm (5.94")
	Width	65 mm (2.56")
	Container Height	93.5 mm (3.68")
	Total Height	99.5 mm (3.92")
Approx Weight	2.70 kg (5.95 lbs)	
Terminal	T2; 0.250", quick disconnect	
Container Material	ABS, Flame retardant, UL94 V0	
Short-circuit current	209.72 A	
Internal Resistance (25°C)	Approx 16 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~55°C (4~131°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~50°C (5~122°F)
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
Max.Charging Current (25°C)	0.25C	
Charge voltage (25°C)	Standby Use	Equalization Use
	2.25-2.30 V/cell	2.30-2.40 V/cell
Temp. Coefficient	-3 mV/cell/°C	-4 mV/cell/°C
	40°C (104°F)	106%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F)	



APPLICATIONS

- UPS
- Hospitals and Testing Laboratories
- Emergency Power Supply
- Industrial Process Control Facilities
- Banks and Financial Markets
- Data and Network Operation Centers

STANDARDS

- Compliance with IEC 60896 standards
- Classified as "Long Life" according to Eurobat
- CE, UL Approved
- IATF16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities



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

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	31.7	20.7	16.7	12.8	8.94	6.35	5.05	3.59	2.74	1.98	1.57	1.34	0.900	0.739
1.80V/cell	34.1	21.9	17.6	13.3	9.22	6.53	5.18	3.67	2.79	2.01	1.60	1.36	0.920	0.749
1.75V/cell	35.9	22.8	18.1	13.7	9.46	6.67	5.28	3.74	2.84	2.04	1.62	1.38	0.930	0.757
1.70V/cell	37.6	23.7	18.8	14.1	9.70	6.82	5.38	3.80	2.88	2.07	1.64	1.40	0.940	0.764
1.67V/cell	38.9	24.4	19.2	14.4	9.87	6.92	5.46	3.85	2.91	2.09	1.66	1.41	0.940	0.770
1.60V/cell	41.3	25.4	19.9	14.8	10.1	7.10	5.59	3.93	2.97	2.13	1.69	1.43	0.960	0.780

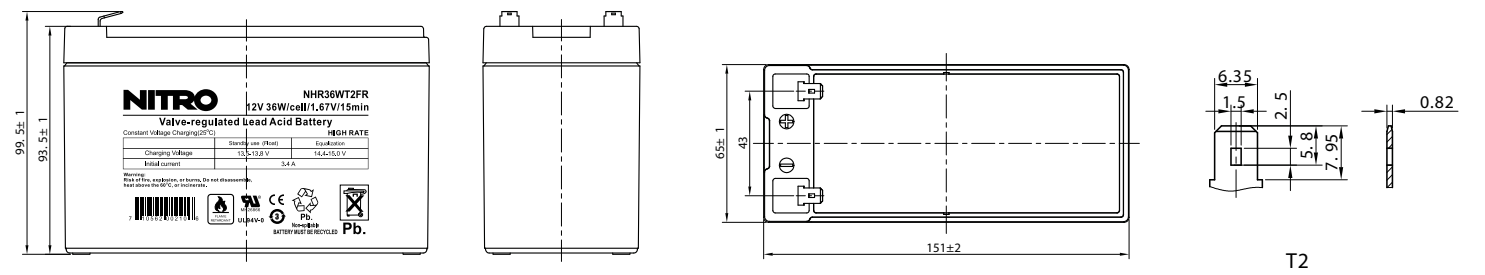
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	60.0	39.4	32.0	24.7	17.3	12.3	9.83	7.02	5.36	3.88	3.10	2.65	1.79	1.47
1.80V/cell	63.9	41.4	33.4	25.5	17.7	12.6	10.0	7.14	5.45	3.94	3.14	2.68	1.82	1.49
1.75V/cell	66.6	42.8	34.3	26.1	18.1	12.8	10.2	7.25	5.53	3.99	3.18	2.71	1.84	1.50
1.70V/cell	69.1	44.2	35.2	26.7	18.5	13.1	10.4	7.36	5.60	4.04	3.22	2.74	1.85	1.52
1.67V/cell	70.9	45.2	36.0	27.2	18.8	13.3	10.5	7.44	5.65	4.08	3.24	2.76	1.87	1.53
1.60V/cell	73.7	46.5	37.0	27.9	19.2	13.5	10.7	7.56	5.74	4.14	3.29	2.80	1.89	1.54

GENERAL FEATURES

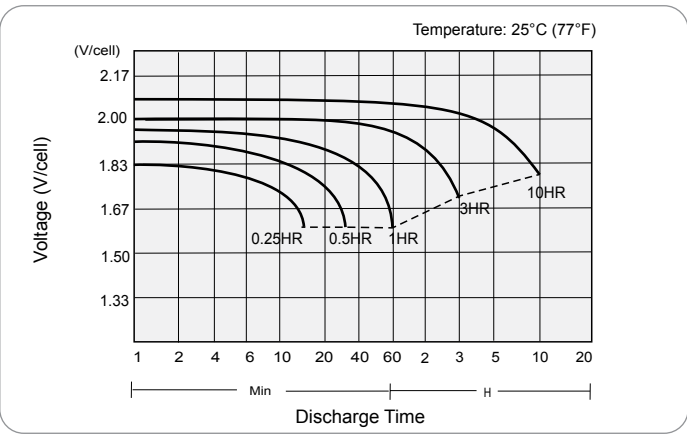
- 5 years design life (25°C)
 - Excellent high current performance - optimised for short discharge time
 - Advanced AGM technology for superior high-rate power
- Long Life Alloy - minimizing grid growth, reducing gassing and extending battery life
 - Epoxy-sealed posts eliminate leaks
 - Optimal energy density - saves floor space

DIMENSIONS

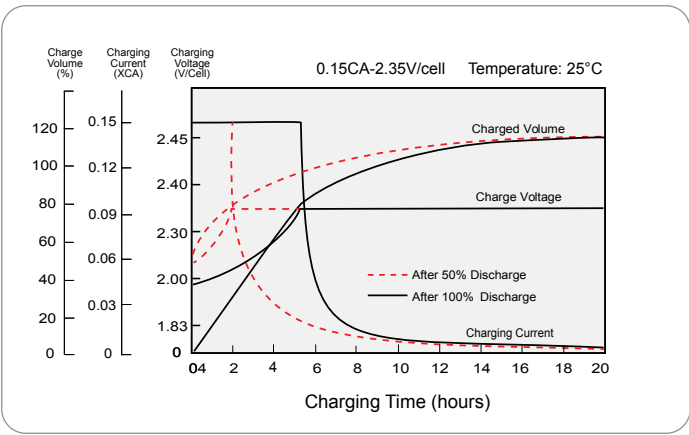


PERFORMANCE CHARACTERISTICS

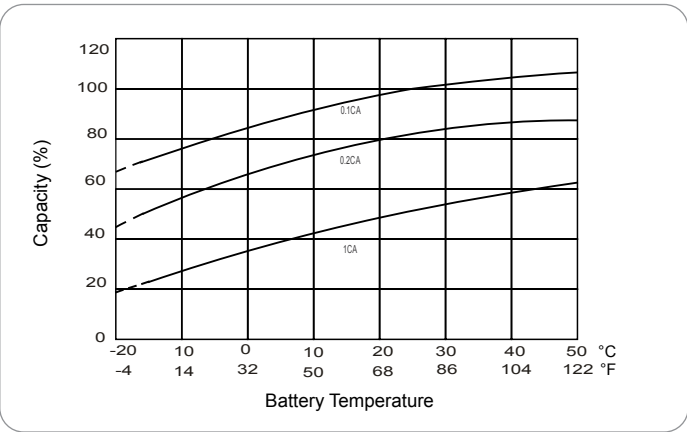
Discharge Characteristics



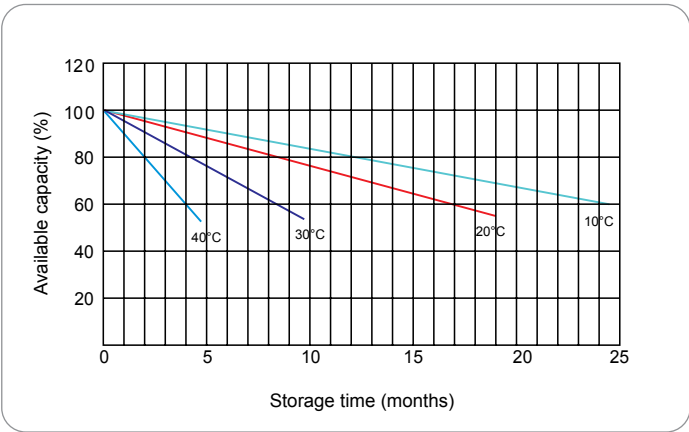
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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