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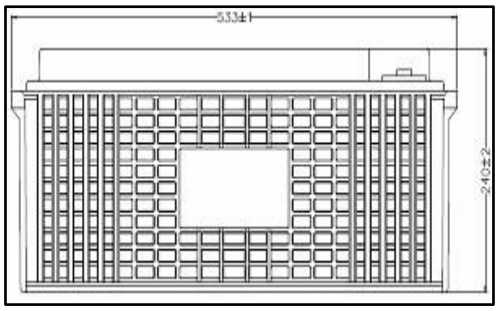
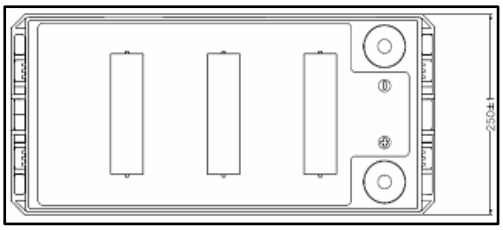
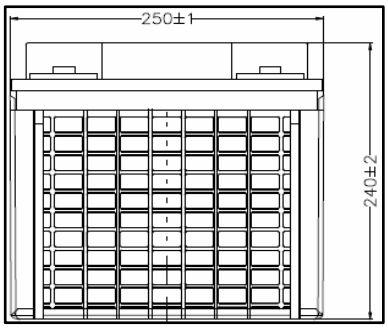
TECHNICAL DATA SHEET FOR NXT 200-12(12V 200AH) VRLA BATTERY

A product from ISO 9001, ISO18001 certified unit







CONSTRUCTION: #Pb-Ca-Sn alloy for current collection. # High Temperature Vaporous Curing (HTVC), a novel process, for positive plate generation. # Doubly sealed robust terminals having Se reinforcement, 100% ensured capacity (through Data-logger) during manufacturing. # Improved aesthetics with Optional brightener. # Stronger, sturdier & attractive packaging. # Specially suited for UPS & Power Application.

FEATURES:-

 # International Size. # free from Orientation Constraints. # Eco-Friendly. # Easy Handling. #Ready to Use. # Long Service Life. # Low Self-discharge. # Excellent Charge retention & recovering ability. # Superior High Rate Discharge. # High Reliability.

SPECIFICATION CHART

Battery Type	Nominal Voltage (V)	Rated Capacity (Ah) at 27°C						Dimensions (mm)				Weight (Kg) (+/-5%)
		20 hr 1.75V/cell	10 hr 1.75V/cell	3 hr 1.7 V/cell	1.5 hr 1.7V/cell	1 hr 1.6V/cell	30mins. 1.6V/cell	Overall Height ±2	Height up to lid top ±2	Length ±1	Width ±1	
NXT200-12	12	200	182.0	150.0	144.0	120.0	100.0	240	240	533	250	63.5

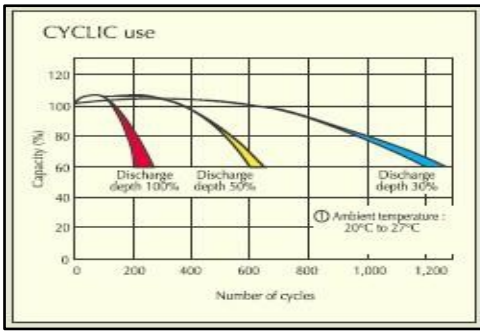
Float Life 5Years. Performance Characteristics confirming to JISC8702

NOTES ON OPERATION

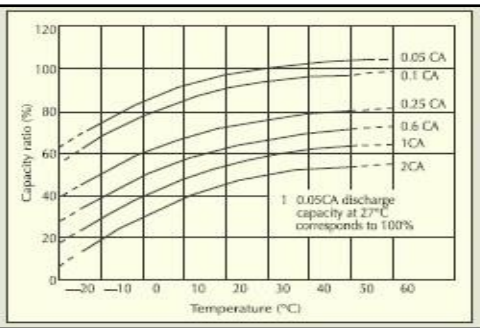
Mode of Operation	Voltage setting per 12V unit for ambience Temp. 20-30 ®C	Current setting
FLOAT	13.7V+/-0.1V	Maximum :0.3CA
CYCLE	14.7V +/-0.1V	Minimum: 0.1CA

Temperature Compensation (Ref. 25®C) FLOAT : -18mV/deg C/12V unit ; CYCLE: -30mV/ degC /12V unit.

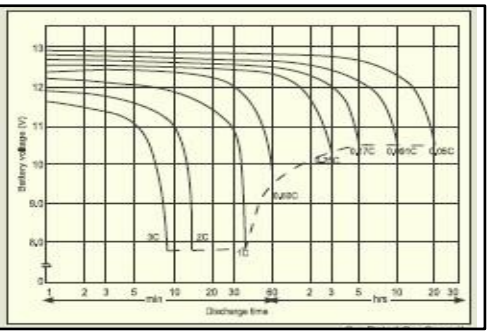
Number of Cycle



Effect of Temp. on Capacity



Discharge Characteristics



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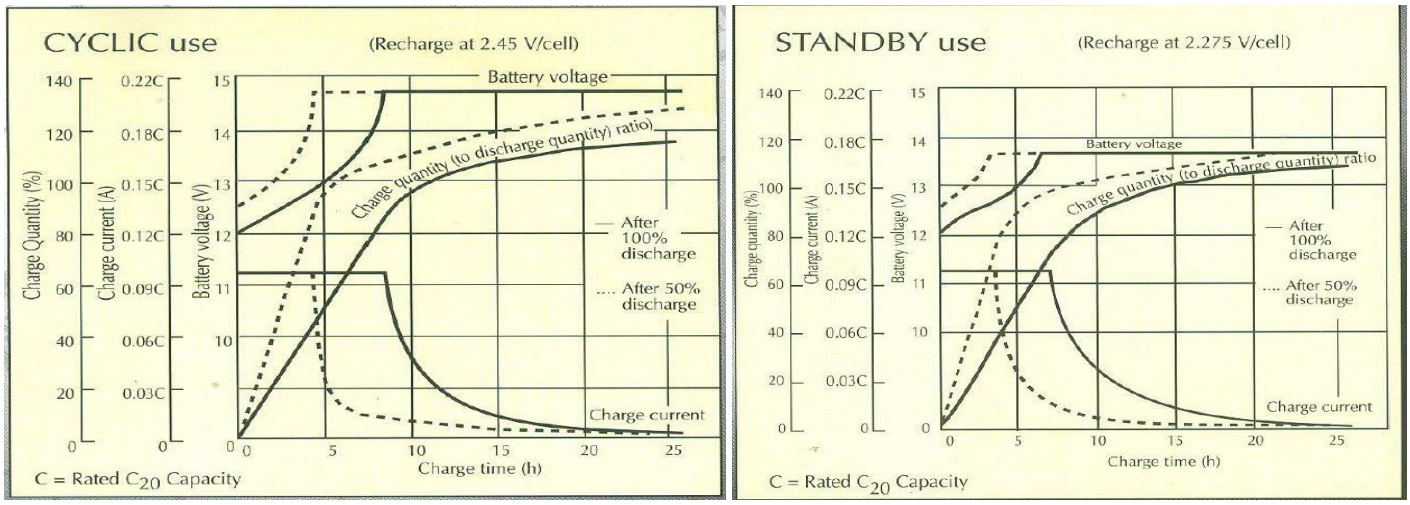
Constant Power Discharge Rating in Watts per Battery @27 °C							
	AH	5Min	10Min	15Min	20Min	30Min	60Min
Watt/Battery @ 1.60V	200AH	7668	5138	4030	3236	2414	1498
Watt/Battery @ 1.70V		7320	4832	3896	3166	2400	1448
Watt/Battery @ 1.80V		6614	4646	3620	2982	2250	1364

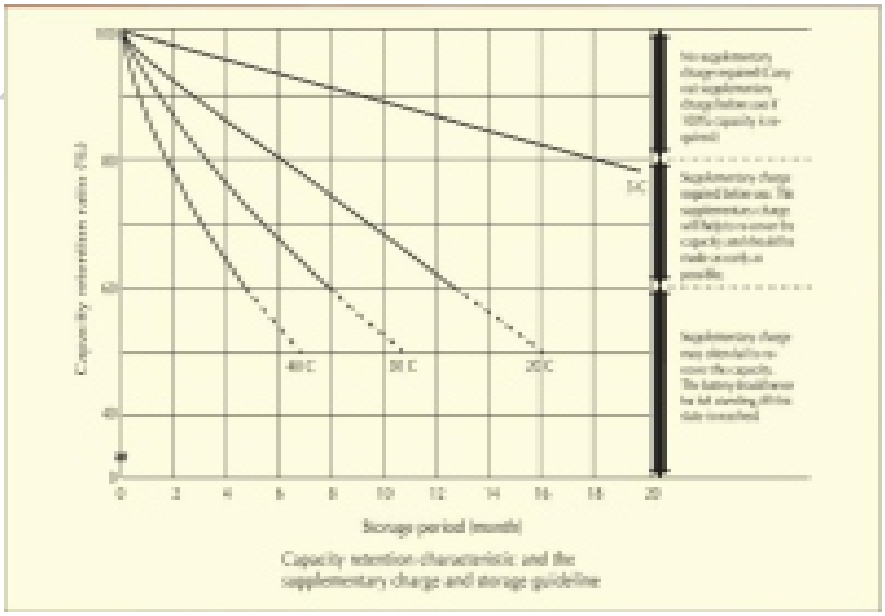
Discharge Current & Recommended Final Discharge Voltage

Discharge Current (A)	Final Discharge Voltage(V/Cell)
0.2 C > (A) or intermittent discharge	1.75
0.2 C< or = (A) < 0.5 C	1.70
0.5 C< or = (A) < 1.0 C	1.55
1.0 C< or = (A)	1.30

CHARGE CHARACTERISTIC



Retention of Charge of POWERPLUSSeries under ideal storage condition



MAXIMUM DISCHARGE CURRENT FOR VARIOUS DURATION & CUT-OFF VOLTAGE

End Vol./Cell	Temp	0.5 min	1 min	2 min	3 min	4 min	5 min	7 min	10 min	15 min	20 min	30 min	1 hrs	2 hrs	3 hrs	4 hrs	6 hrs	8 hrs	10 hrs
1.8	25	3.2C	3.15C	3.1C	3C	2.8C	2.6C	2.3C	2C	1.65C	1.4C	1.1C	0.64C	0.36	0.270C	0.210C	0.145C	0.11	0.09
1.7	25	4.3C	4.2C	4C	3.7C	3.4C	3.2C	2.7C	2.3C	1.8C	1.5C	1.15C	0.67C	0.4C	0.290C	0.230C	0.165C	0.130C	0.108C
1.65	25	4.85C	4.7C	4.45C	4.05C	3.65C	3.35C	2.85C	2.35C	1.85C	1.55C	1.2C	0.69C	0.41C	0.300C	0.240C	0.170C	0.135C	0.110C
1.6	25	5.4C	5.2C	4.9C	4.4C	3.9C	3.5C	3C	2.4C	1.9C	1.6C	1.25C	0.7C	0.42C	0.310C	0.250C	0.180C	0.140C	0.115C
1.8	5	2.55C	2.4C	2.35C	2.3C	2.15C	2C	1.8C	1.65C	1.3C	1.1C	0.95C	0.59C	0.29C	0.230C	0.182C	0.129C	0.098C	0.080C
1.7	5	3.8C	3.65C	3.4C	3.15C	2.8C	2.5C	2.1C	1.8C	1.5C	1.2 C	1C	0.62C	0.32C	0.250C	0.199C	0.143C	0.116C	0.096C
1.65	5	3.9C	3.8C	3.6C	3.3C	2.9C	2.6C	2.2C	1.9C	1.6C	1.3C	1.05C	0.64C	0.33	0.260C	0.208C	0.147C	0.120C	0.098C
1.6	5	4C	3.9C	3.75C	3.5C	3.1C	2.75C	2.3C	2C	1.7C	1.4C	1.10C	0.66C	0.34C	0.270C	0.216C	0.156C	0.125C	0.102C
1.8	-5	2.1C	2.05C	2C	1.95C	1.8C	1.6C	1.5C	1.3C	1C	0.86C	0.76C	0.48C	0.24C	0.198C	0.154C	0.115C	0.087C	0.071C
1.7	-5	2.9C	2.7C	2.65C	2.6C	2.3C	2C	1.85C	1.6C	1.2C	1C	0.86C	0.53C	0.27C	0.213C	0.168C	0.123C	0.103C	0.086C
1.65	-5	3.1C	3C	2.9C	2.7C	2.35C	2.1C	1.9C	1.6C	1.25C	1.05C	1.88C	0.54C	0.27C	0.220C	0.176C	0.125C	0.107C	0.087C
1.6	-5	3.3C	3.2C	3.1C	2.75C	2.4C	2.2C	2C	1.65C	1.3C	1.1C	0.9C	0.55C	0.28C	0.227C	0.183C	0.132C	0.111C	0.091C

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