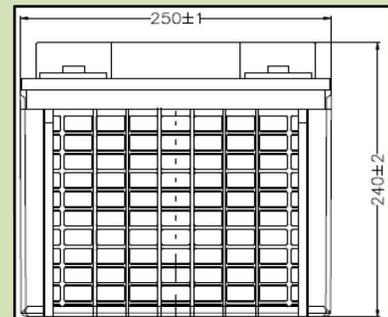
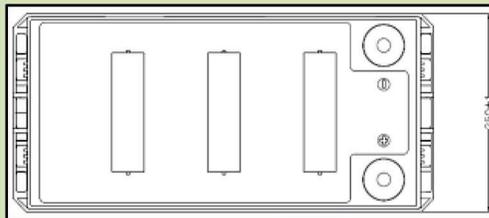


TECHNICAL DATA SHEET FOR 200-12(12V 200AH) VRLA BATTERY

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 |

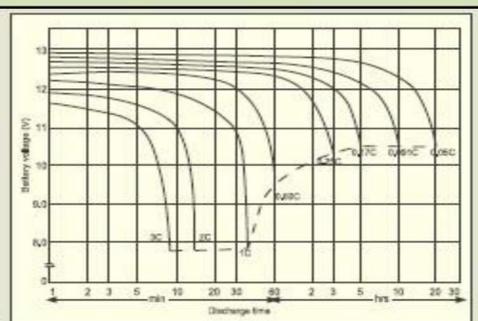
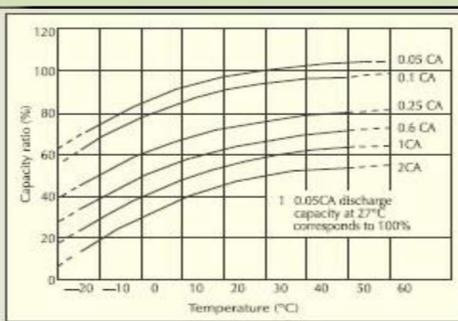
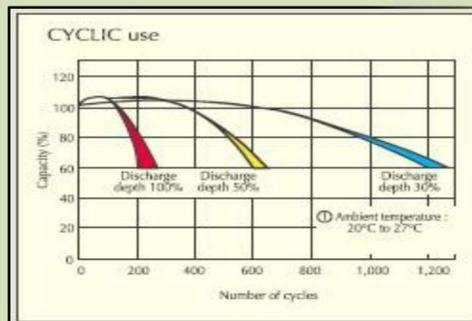
Temperature Compensation (Ref. 25°C) FLOAT : -18mV/deg C/12V unit ;

CYCLE: -30mV/ degC /12V unit.

Number of Cycle

Effect of Temp. on Capacity

Discharge Characteristics

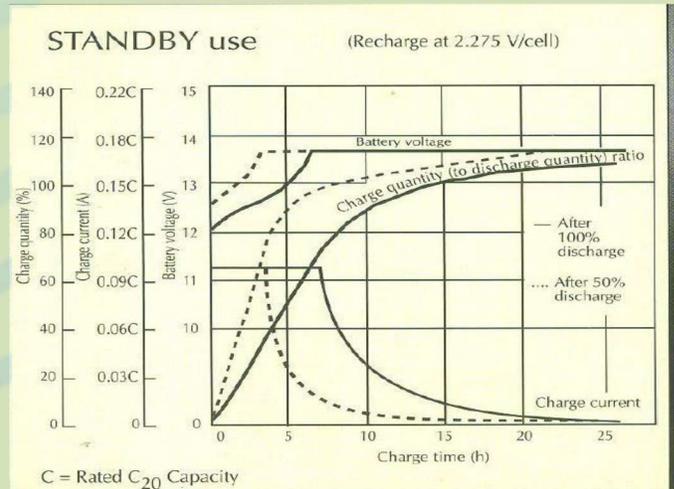
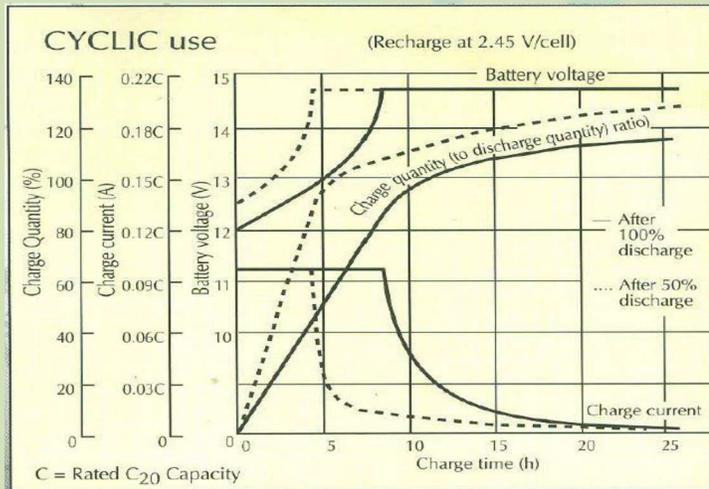


| Constant Power Discharge Rating in Watts per Battery @27 °C | | | | | | | |
|---|-------|------|-------|-------|-------|-------|-------|
| | AH | 5Min | 10Min | 15Min | 20Min | 30Min | 60Min |
| Watt/Battery @ 1.60V | 200AH | 7668 | 5138 | 4030 | 3236 | 2414 | 1498 |
| Watt/Battery @ 1.70V | | 7320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

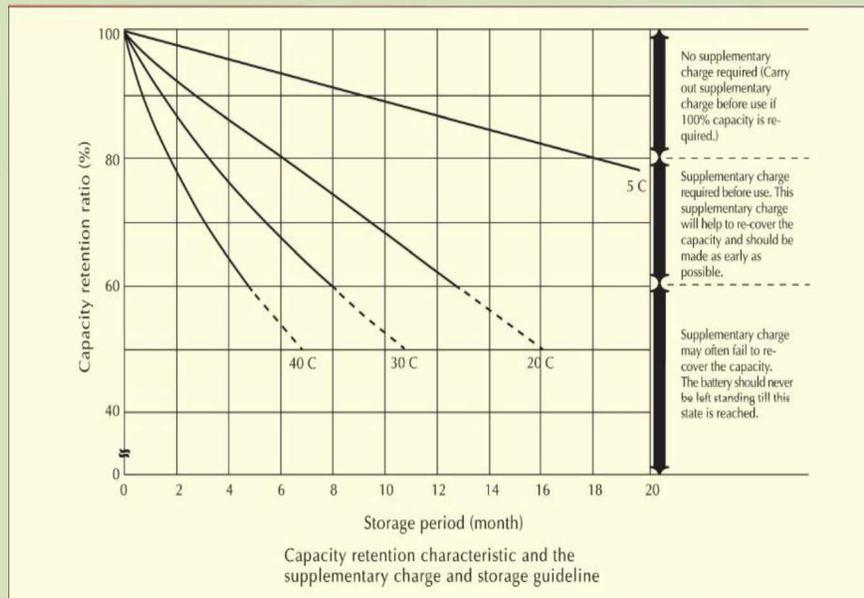
Discharge Current & Recommended Final Discharge Voltage

| 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 POWER PLUS Series under ideal storage condition



MAXIMUM DISCHARGE CURRENT FOR VARIOUS DURATION & CUT-OFF VOLTAGE

| End Vol./Cell | Temp | 0.5 | 1 | 2 | 3 | 4 | 5 | 7 | 10 | 15 | 20 | 30 | 1 | 2 | 3 | 4 | 6 | 8 | 10 |
|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| | | min | hrs | hrs | hrs | hrs | hrs | 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 | 0.240C | 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 | 1.2C | 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 | 0.88C | 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 |