



Hind - Deep Cycle

This range (deep cycle Lead-Carbon with poly gel) is use function activated carbon and graphene as carbon materials , with heavy strong grids that is made of a different chemical for the plates active paste material and a electrolyte stronger slightly than normal battery electrolyte. It enhances a superior performance of high power output and more than 900 cycles life at 80%DOD, it is more suitable for application of PSOC.

Applications

Solar Power Generation
Energy Storage System
Wheel Chair
Wind Energy Storage System

Home Energy Storage System
Smart power & micro-grid System
Generation and Hybrid Energy
Medical Equipment
Distributed Energy Storage System

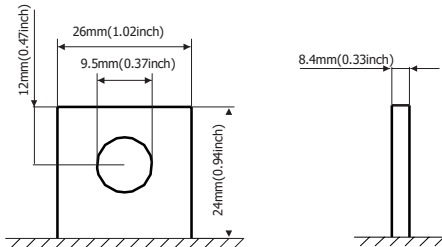
General Features

Better discharge characteristics than normal VRLA batteries.
Non-Spillable construction design.
ABS containers and covers(UL94HB, UL94V-0) optional.
Safety valve installation for explosion proof.
Higher safety & reliable construction.
Extra durability and deep cycle ability for heavy demand applications.
Low self discharge characteristic.
Flexibility design for multiple install positions.

Construction

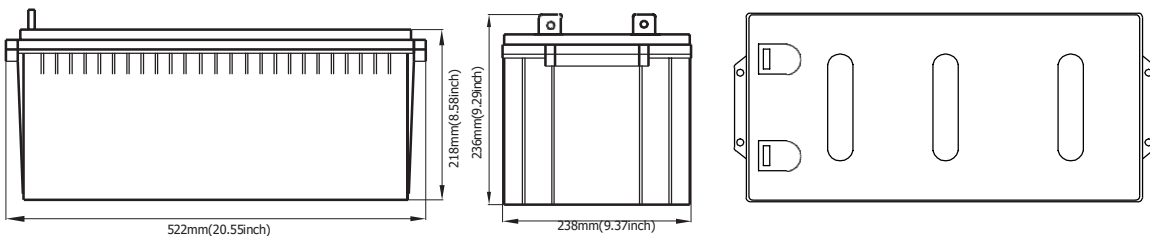
ComponentRaw material
PositiveLead dioxide
NegativeLead
ContainerABS
CoverABS

Sealant Epoxy Resin
Safety valve EPDR
Terminal Lead
Separator Fiber glass
Electrolyte Sulfuric acid

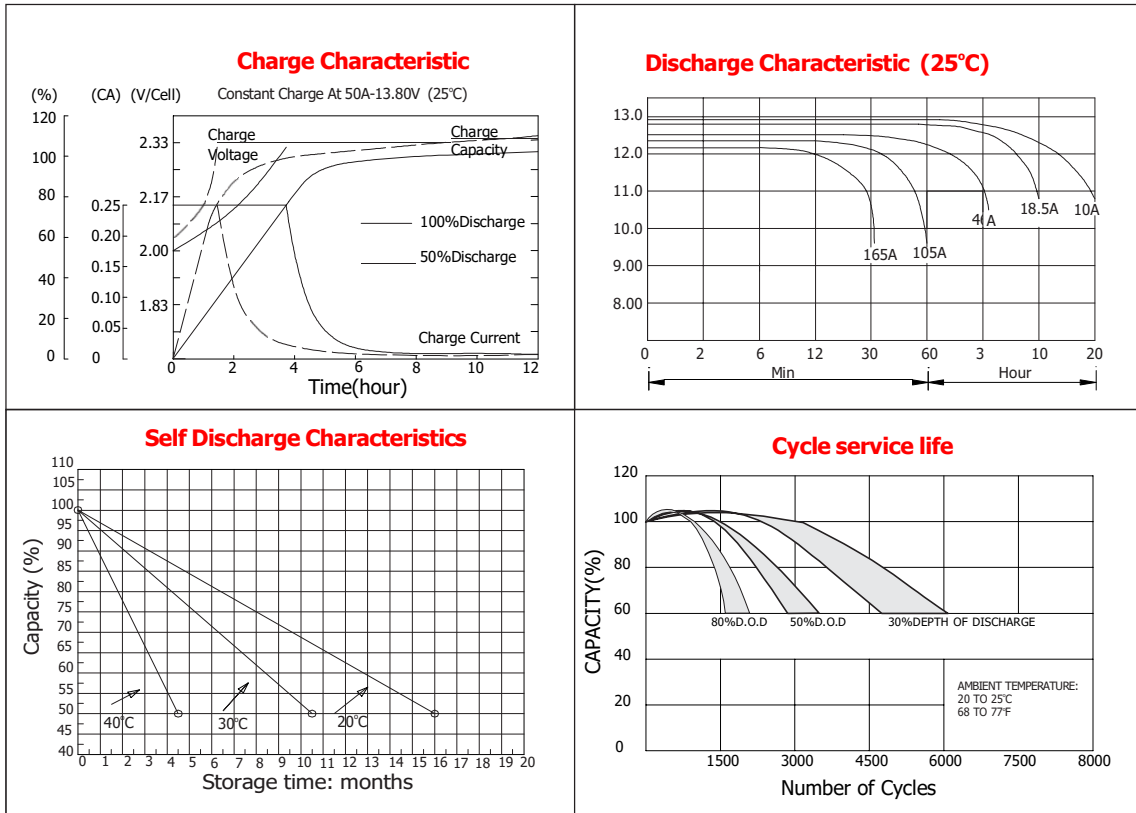


Standard Terminal Dimensions

(Optional terminal please check terminal information page)



| Battery Model | HN-200ah | | | |
|----------------------------------|------------------------------------------|-------------------|----------------------|-----------------|
| Designed Cycle Life | > 2000 cycles 80%DOD @ -0.5CA to 9.6V | | | |
| Capacity(25°C) | 20HR(10.0A,1.75V) | 10HR(18.5A,1.75V) | 5HR(31.0A,1.75V) | 1HR(105A,1.75V) |
| | 200Ah | 185Ah | 155Ah | 105Ah |
| Dimensions | Length | Width | Height | Total Height |
| | 522mm(20.55inch) | 238mm(9.37inch) | 218mm(8.58inch) | 236mm(9.29inch) |
| Approx. Weight | 62.5kgs (137.5 lbs) | | | |
| Internal Resistance | Full charged at 25°C :0.0038 Ohm | | | |
| Self Discharge | Self discharge < 3% per month at (25°C) | | | |
| Capacity Affected by Temp.(20HR) | 40°C | 25°C | 0°C | -15°C |
| | 102% | 100% | 85% | 65% |
| Charge Voltage(25°C) | Cycle use | | Float use | |
| | 14.4-14.8V(-30mV/ °C), max. Current: 50A | | 13.6-13.8(-20mV/ °C) | |



Constant current discharge ratings-amperes at 25°C

| F.V/Time | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR | 48HR | 72HR | 100HR |
|----------|-----|-----|-----|-----|-----|------|------|------|------|------|-------|
| 1.60V | 112 | 66 | 49 | 39 | 33 | 22.0 | 19.3 | 10.4 | 4.5 | 3.1 | 2.25 |
| 1.67V | 110 | 65 | 48 | 38 | 32 | 21.8 | 19.1 | 10.3 | 4.4 | 3.0 | 2.23 |
| 1.70V | 108 | 63 | 47 | 37 | 32 | 21.5 | 18.9 | 10.2 | 4.4 | 3.0 | 2.20 |
| 1.75V | 105 | 61 | 46 | 36 | 31 | 21.0 | 18.5 | 10.1 | 4.3 | 2.9 | 2.16 |
| 1.80V | 99 | 59 | 44 | 35 | 30 | 20.4 | 18.0 | 9.9 | 4.2 | 2.9 | 2.10 |
| 1.85V | 92 | 55 | 41 | 33 | 28 | 19.4 | 17.3 | 9.5 | 4.0 | 2.8 | 2.01 |

Constant power discharge ratings-watts at 25°C

| F.V/Time | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR | 48HR | 72HR |
|----------|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 1.60V | 207 | 123 | 92 | 74 | 62 | 43 | 38.0 | 20.5 | 8.8 | 6.0 |
| 1.67V | 206 | 122 | 92 | 73 | 62 | 43 | 37.7 | 20.4 | 8.7 | 6.0 |
| 1.70V | 201 | 120 | 90 | 72 | 61 | 42 | 37.2 | 20.1 | 8.6 | 5.9 |
| 1.75V | 195 | 116 | 88 | 70 | 60 | 41 | 36.5 | 19.7 | 8.5 | 5.8 |
| 1.80V | 186 | 111 | 84 | 68 | 58 | 40 | 35.6 | 19.2 | 8.2 | 5.6 |
| 1.85V | 173 | 104 | 79 | 64 | 55 | 38 | 34.2 | 18.5 | 7.9 | 5.4 |

