



Nippotec Tubular Battery

Nippotec Tubular plate batteries are designed to meet the needs of off-grid power systems and heavy duty applications. The batteries are engineered to effectively perform regular deep-discharge cycles while offering long service life.

- Thick, micro-porous, non-conductive gauntlets (tubes) increase positive plate service area, resulting in up to 20% greater electrical capacity.
- Tubular technology holds the active material on battery plate, reducing possible shedding and corrosion of the plate resulting in longer life time. Additionally, this also allows the battery to better operate in the hot and humid conditions of the Middle-East and African region.

Features

- **High acid volume per cell**
- **Micro-porous ceramic vent plugs with float guide indicators-** for easy maintenance
- **Leak proof heat sealed container**
- **Extra electrolyte for reduced frequency of water topping**
- **Extra thick spines and Bus bar** for high discharge performance during heavy load.
- **DRAMIC separator** with high porosity, low electrical resistance and high oxidation resistance



Eco-Friendly
(Recyclable)



Long Life Cycle



Heavy Duty
Application



High Temperature
Operation

Technical Specification

| Battery Type | NTB 70 | NTB 100 | NTB 150 | NTB 200 |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| Nominal Voltage | 12 V | | | |
| Rated Capacity (Ah) at 27°C | | | | |
| 20Hr | 70 Ah | 100 Ah | 150 Ah | 100 Ah |
| 10Hr | 56 Ah | 80 Ah | 120 Ah | 80 Ah |
| 3Hr | 40 Ah | 71 Ah | 86.04 Ah | 71 Ah |
| Max. Discharge Current (25° C) | 210A (3s) | 300A (3s) | 450A (3s) | 300A (3s) |
| Charging Current (Cycle Use) | 14.4-14.7V | | | |
| Charging Current (Standby) | 13.8-14.2V | | | |
| Dimensions (mm) Hx Lx W | 500 x 218 x 256 | 500 x 218 x 256 | 498 x 184 x 387 | 500 x 218 x 256 |
| Weight (Kgs) Dry | 18.5 | 21.75 | 30.95 | 21.75 |

Sample Back up Time (NTB 200)

| Load | Inverter/ UPS (VA Rating) | No. of Batteries | Back up Duration (hours/min) | |
|--|------------------------------|------------------|------------------------------|-----------|
| | | | Full Load | 50% Load |
| 1 Tube light + 3 fans + 1 TV + 10 LED Lights | 650 VA | 1 | 2 h 30 min | 5h 40 min |
| 2 Tube light + 2 fans + 1 PC + 8 LED Lights | 650 VA | 1 | 2 h 40 min | 6h 10 min |
| 2 Tube light + 4 fans + 1 PC + 8 LED Lights | 850 VA | 1 | 1 h 40 min | 4h |
| 2 Tube light + 4 fans + 1 TV + 10 LED Lights | 850 VA | 1 | 1 h 50 min | 4h |
| 7 Tube light + 7 fans + 1 TV | 1500 VA | 2 | 2 h 10 min | 5h |
| 5 Tube light + 7 fans + 1 PC + 20 LED Lights | 1500 VA | 2 | 1 h 10 min | 4h 50 min |

Tube light : 40 W
TV : 100 W
PC : 200W
LED Light : 20 W
Fan : 85 W