

SAMSUNTM

SOLAR

CHOOSE TO BE HAPPY



TALL TUBULAR BATTERY

BEST USE FOR UPS / INVERTER & SOLAR



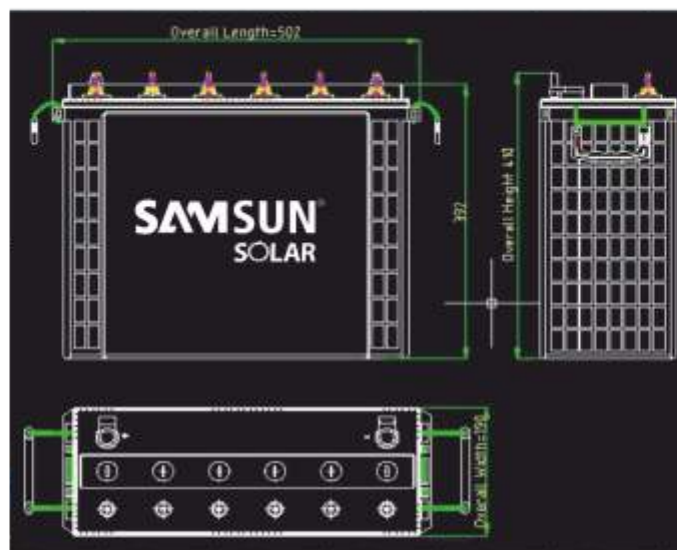
MODELS AVAILABLE
50AH to 300AH

www.samsunindia.com

12V 200Ah@C20

| | | |
|-------------------------------|----------------------|-----------|
| NOMINAL VOLTAGE | | 12V |
| Rated Capacity (20 hour rate) | | 200 Ah |
| Dimensions in mm | Length | 502 mm |
| | Width | 190 mm |
| | Height upto Terminal | 410 mm |
| Filled Weight | | 64.5 Kgs. |

DIMENSIONS

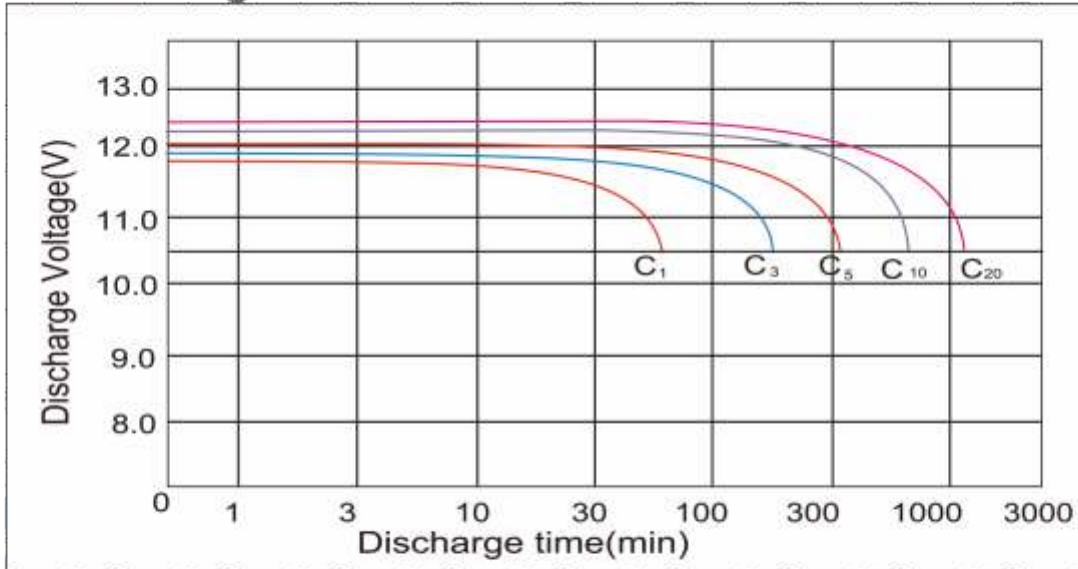


ELECTRICAL PARAMETERS

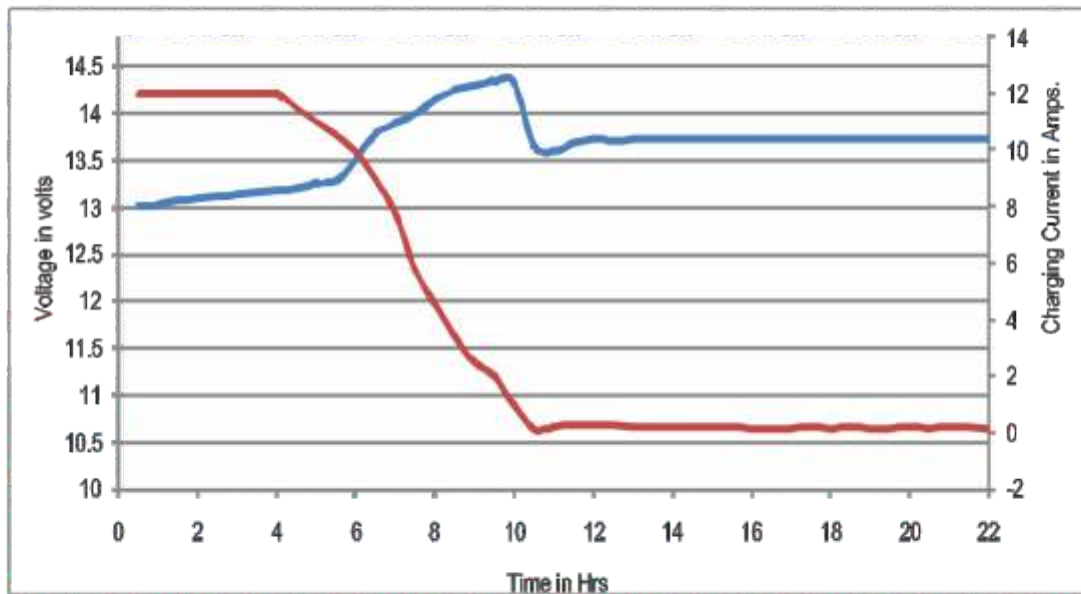
| | | | |
|-------------------------------------|--------------------------|-----------------|--------------|
| Capacity (27°C) | 20 hour rate to 10.5 ECV | | 200 Ah |
| | 10 hour rate to 10.8 ECV | | 165 Ah |
| | 7 hour rate to 10.8 ECV | | 151 Ah |
| | 5 hour rate to 10.8 ECV | | 137 Ah |
| | 3 hour rate to 10.8 ECV | | 118 Ah |
| | 1 hour rate to 10.5 ECV | | 83 Ah |
| Ah/ Wh Efficiency | Amp. hour Efficiency | | 95% |
| | Watt. hour Efficiency | | 86% |
| Capacity Loss on Storage | | | 3% Per Month |
| Charge method (Constat voltage) | Max. Current | | 20 A |
| | Cyclic Use | Control Voltage | 14.4 V |
| | Float Use | Control Voltage | 13.8 V |

DISCHARGING CHARACTERISTICS

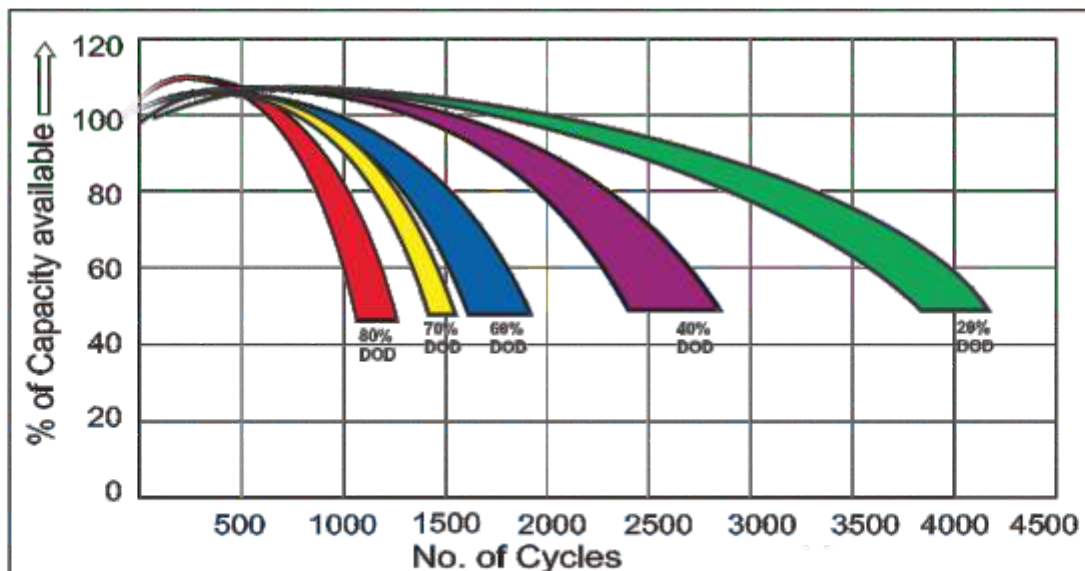
at various rates @27°C



CHARGING CHARACTERISTICS



CYCLE LIFE@ 27°C



TECHNICAL SPECIFICATION - SHORT TUBULAR

| BATTERY TYPE | "VERY LOW MAINTENANCE LEAD ACID TUBULAR BATTERY" | "VERY LOW MAINTENANCE LEAD ACID SOLAR BATTERY" | "VERY LOW MAINTENANCE LEAD ACID TUBULAR BATTERY" |
|--|--|--|--|
| AH CAPACITY AT C20 (Short Tubular) | 50 AH | 80 AH | 100 AH |
| APPLICATIONS | "SOLAR APPLICATIONS" | "SOLAR APPLICATIONS" | "SOLAR APPLICATIONS" |
| MAX LENGTH (IN MM) | 412 | 412 | 412 |
| MAX WIDTH (IN MM) | 175 | 175 | 175 |
| "MAX HEIGHT UPTO TERMINAL (IN MM)" | 232 | 286 | 286 |
| DRY WEIGHT (IN KG) | 11.50 | 14.70 | 17.70 |
| FILLED WEIGHT (IN KG) | 21.75 | 28.60 | 32.45 |
| ELECTROLYTE GRAVITY | 1240±10 AT 27°C | 1240±10 AT 27°C | 1240±10 AT 27°C |
| CHARGING CURRENT | 8- 12% OF RATED CAPACITY | 8-12% OF RATED CAPACITY | 8-12% OF RATED CAPACITY |
| CUTT OFF VOLTAGE | 13.8V- 14.8V | 13.8V-14.8V | 13.8V-14.8V |
| CYCLIC LIFE @ 80% DOD | MORE THAN 900 CYCLES | MORE THAN 900 CYCLES | MORE THAN 900 CYCLES |
| CYCLIC LIFE @50% DOD | MORE THAN 2000 CYCLES | MORE THAN 2000 CYCLES | MORE THAN 2000 CYCLES |
| AMPERE HOUR EFFICIENCY | MORE THAN 95% | MORE THAN 95% | MORE THAN 95% |
| WATT HOUR EFFICIENCY | MORE THAN 80% | MORE THAN 80% | MORE THAN 80% |
| RETENTION CAPACITY | LESS THAN 3% SELF DISCHARGE ON 28 DAYS PERIOD | LESS THAN 3% SELF DISCHARGE ON 28DAYS PERIOD | LESS THAN 3% SELF DISCHARGE ON 28DAYS PERIOD |
| ENDURANCE RESULTS | A S PER BIS 13369: 1992 | AS PER BIS 13369: 1992 | AS PER BIS 13369: 1992 |
| NO.OF POSITIVE PLATE/CELL | 2 | 2 | 3 |
| POSITIVE PLATE TYPE | TUBULAR CASTED BY HIGH PRESSURE DYE CASTING MACHINE" | TUBULAR CASTED BY HIGH PRESSURE DYE CASTING MACHINE' | TUBULAR CASTED BY HIGH PRESSURE DYE CASTING MACHINE' |
| INNER DIA (MM) OF TUBULAR BAGS USED FOR +VE PLATES | 6.2MM | 6.2MM | 6.2MM |
| POSITIVE PLATE ALLOY TYPE | 3.1% HIGH ANTIMONY SELENIUM ALLOY | 3.1% HIGH ANTIMONY SELENIUM ALLOY | 3.1% HIGH ANTIMONY SELENIUM ALLOY |
| NO.OF NEGATIVE PLATE/CELL | 3 | 3 | 4 |
| NEGATIVE PLATE TYPE | PASTED | PASTED | PASTED |
| NEGATIVE PLATE ALLOY | 2.5% ANTIMONY SELENIUM ALLOY | 2.5% ANTIMONY SELENIUM ALLOY | 2.5% ANTIMONY SELENIUM ALLOY |
| IMPORTANT NOTES: TESTING AS PER BIS STANDARD 13369: 1992 TOLERANCE: WEIGHT ± 3%, DIMENSION ±5MM | | | |

Technical Specification

| Model | Tall Tubular Battery Series | | | | | |
|--|---|-------------|-------------|-------------|-------------|-------------|
| Battery rating | 100Ah | 150Ah | 200Ah | 225Ah | 250Ah | 300Ah |
| Type of Battery | Tubular | | | | | |
| Model Offered | 1000 | 1500 | 2000 | 2250 | 2500 | 3000 |
| Nominal Voltage | 12V | | | | | |
| Number of cell | 6 | | | | | |
| Shelf life | 6 years | | | | | |
| Nominal Capacity(27°C) | | | | | | |
| Cell Capacity @ C20 | 102 Ah | 153 Ah | 200 Ah | 225 Ah | 250 Ah | 300 Ah |
| Cell Capacity @ C10 | 81 Ah | 120 Ah | 176 Ah | 200 Ah | 220 Ah | 250 Ah |
| Cell Capacity @ C3 | 57.5 Ah | 86 Ah | 126 Ah | 150 Ah | 175 Ah | 200 Ah |
| AH Efficiency | > 90% | | | | | |
| WH Efficiency | > 80% | | | | | |
| Recommended max. period of storage | 3 months at 27°C | | | | | |
| Grid Alloy | Lead Antimony alloy | | | | | |
| Container & Lid Material | PPCP | | | | | |
| Sealing Method | Heat Sealing | | | | | |
| Plate type | Tubular Pos. & Flat Neg. | | | | | |
| Separator | Polyethylene | | | | | |
| Terminals & ICC | Bolted type terminals with lead coated fastners | | | | | |
| Mounting | Vertical | | | | | |
| Acid Level Indicators | Provided | | | | | |
| Supply condition | Factory charged | | | | | |
| Self Discharge at 27°C (average) | 2.5% | 3% | 3% | 3% | 3% | 3% |
| Operating Temp. range | | | | | | |
| Discharge | -20~ 50°C | | | | | |
| Charge | -10~ 50°C | | | | | |
| Storage | -20~ 50°C | | | | | |
| Max. Discharge Current 77°F (25°C) | 100 A(3 sec) | 450A(3 sec) | 600A(3 sec) | 675A(3 sec) | 675A(3 sec) | 675A(3 sec) |
| Short Circuit Current | 100 A | 150 A | 200 A | 225 A | 225 A | 225 A |
| Cycle Use | 14.2 - 14.5 V | 14.4 - 14.7 | 14.4 - 14.7 | 14.4 - 14.7 | 14.4 - 14.7 | 14.4 - 14.7 |
| Maximum charging Current 10% of Capacity | 10 Amp | 15 Amp | 20 Amp | 25 Amp | 25 Amp | 25 Amp |
| Temperature compensation | 75mV/300moh | | | | | |
| Weight (Kg) Gross +/- 3% | 52-53 | 56-57 | 63-64 | 66-67 | 68-69 | 74 |
| Dimensions (L x W x H) in mm | 505 x 187 x 394 | | | | | |



Marketing by: Nbs Solar
www.nbsgroups.com
 Contact number India: +919700877707
Website: www.samsunindia.com
Mail Us: info@samsunindia.com