

RT AND MT-TUBULAR PLATE CELLS DEEP CYCLE



FEATURES

Large Electrolyte Head (100mm)
Proven product
Bolt on connector

Blocked off end tubes

Coloured plastic lock nuts

No-oxide grease in lock nuts
Microporous rubber separator

Separators overlap plates
Large sediment space
Deep cycle battery

BENEFITS

Topping up intervals reduced dramatically
Design proven in local Mining Houses
Totally insulated terminals for safety
Easier maintenance
Less hazardous
No acid creepage
Eliminates short circuiting on the positive and negative plates should mousing occur
Plastic will not cause tracking between posts
Coloured nuts prevent reverse assembly
Prevents acid creepage into posts
Separator can withstand high and low temperatures without losing porosity
Reducing mousing risk
Ensures extended battery life
Tubular Positive Plates
> 1000 cycles to 80% D.O.D

OPERATING CONDITIONS FOR MT AND RT CELLS

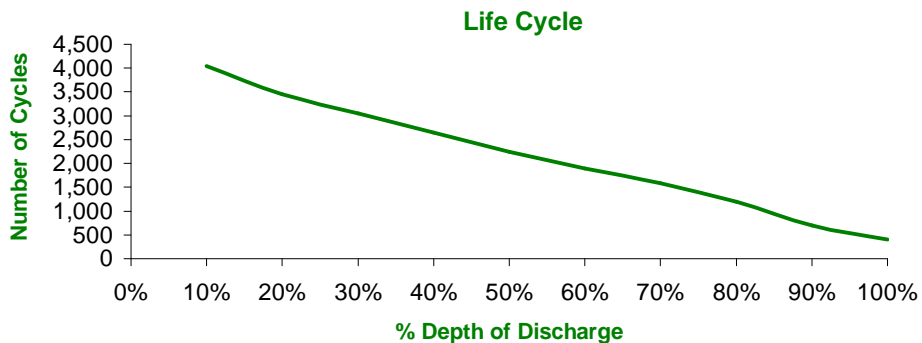
TEMPERATURE 20 - 25°C
SPECIFIC GRAVITY 1,240 +/- 0,01

VOLTAGE ON CHARGE
STANDBY AND SOLAR APPLICATIONS
Float: 2.2 VPC @ 25 °C, i.e. 13.8 Volts
Boost: 2.35 - 2.4 VPC @ 25°C, i.e. 14.1 Volts

TERMINALS M10 Stainless Steel Cap Screw (Torque 30Nm)
PLATE ALLOYS Positive Plate Lead Antimony

The RT/MT range has been tested in accordance with SABS IEC specification 60896 Part One, STATIONARY LEAD ACID BATTERIES: GENERAL REQUIREMENTS AND METHODS OF TEST- VALVE REGULATED TYPES.

LIFE CYCLE DATA



Note:

If an alternating current/voltage is superimposed on the float voltage, heating of the cell or monoblock may occur. This reduces the service life of the battery. Alternating currents should not be allowed to go negative. Peak voltages and other wave shaped fluctuations may be accepted provided that the peak to peak system voltage without battery, but with the charger connector, remains within +/- 2.5% of the recommended voltage of the battery.

NB: Under no circumstances should the current flowing through the battery in the standby-parallel mode be reversed.

RT RANGE OF TUBULAR CELLS

CAPACITY PERFORMANCE

| TYPE | AMPERE HOURS TO 1.85 VPC 10Hrs | AMPERE HOURS TO 1.85 VPC 20Hrs | AMPERE HOURS TO 1.85 VPC 50Hrs | AMPERE HOURS TO 1.85 VPC 100Hrs | AMPERE HOURS TO 1.85 VPC 120Hrs | OVERALL LENGTH (mm) | OVERALL WIDTH (mm) | OVERALL HEIGHT (mm) | OVERALL MASS Kg (Filled) | LITRES PER CELL OF 1.250 ELECTROLYTE | ACID RESERVOIR HEIGHT (mm) |
|-------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------|--------------------|---------------------|--------------------------|--------------------------------------|----------------------------|
| RT 9 | 254 | 269 | 284 | 292 | 298 | 93 | 158 | 546 | 22.42 | 4.42 | 100 |
| RT 11 | 318 | 337 | 356 | 365 | 372 | 108 | 158 | 546 | 26.50 | 5.20 | 100 |
| RT 13 | 381 | 404 | 427 | 438 | 447 | 126 | 158 | 546 | 30.58 | 5.50 | 100 |
| RT 15 | 445 | 471 | 498 | 511 | 521 | 146 | 158 | 546 | 34.66 | 6.29 | 100 |
| RT 17 | 508 | 538 | 569 | 584 | 596 | 165 | 158 | 546 | 37.72 | 6.50 | 100 |
| RT 19 | 572 | 606 | 640 | 657 | 670 | 185 | 158 | 546 | 42.82 | 7.38 | 100 |
| RT 21 | 635 | 673 | 711 | 730 | 745 | 205 | 158 | 546 | 46.90 | 8.40 | 100 |
| RT 23 | 699 | 740 | 782 | 803 | 819 | 224 | 158 | 546 | 50.98 | 8.78 | 100 |
| RT 25 | 762 | 808 | 853 | 876 | 894 | 243 | 158 | 546 | 55.06 | 9.97 | 100 |

MT RANGE OF TUBULAR CELLS

CAPACITY PERFORMANCE

| TYPE | AMPERE HOURS TO 1.85 VPC 10Hrs | AMPERE HOURS TO 1.85 VPC 20Hrs | AMPERE HOURS TO 1.85 VPC 50Hrs | AMPERE HOURS TO 1.85 VPC 100Hrs | AMPERE HOURS TO 1.85 VPC 120Hrs | OVERALL LENGTH (mm) | OVERALL WIDTH (mm) | OVERALL HEIGHT (mm) | OVERALL MASS Kg (Filled) | LITRES PER CELL OF 1.250 ELECTROLYTE | ACID RESERVOIR HEIGHT (mm) |
|-------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------|--------------------|---------------------|--------------------------|--------------------------------------|----------------------------|
| MT 7 | 155 | 164 | 173 | 180 | 181 | 70 | 205 | 590 | 14.26 | 3.01 | 100 |
| MT 9 | 206 | 218 | 231 | 240 | 242 | 93 | 205 | 491 | 18.34 | 4.11 | 100 |
| MT 11 | 258 | 273 | 288 | 300 | 302 | 108 | 205 | 491 | 22.42 | 4.82 | 100 |
| MT 13 | 309 | 328 | 346 | 360 | 362 | 126 | 205 | 491 | 25.48 | 4.78 | 100 |
| MT 15 | 361 | 382 | 404 | 420 | 423 | 146 | 205 | 491 | 29.56 | 5.89 | 100 |
| MT 17 | 412 | 437 | 461 | 480 | 483 | 165 | 205 | 491 | 32.62 | 6.10 | 100 |
| MT 19 | 464 | 491 | 519 | 540 | 544 | 185 | 205 | 491 | 36.70 | 6.48 | 100 |
| MT 21 | 515 | 546 | 577 | 600 | 604 | 205 | 205 | 491 | 40.78 | 7.58 | 100 |
| MT 23 | 567 | 600 | 634 | 660 | 665 | 224 | 205 | 491 | 43.84 | 7.87 | 100 |
| MT 25 | 618 | 655 | 692 | 720 | 725 | 243 | 205 | 491 | 47.92 | 8.58 | 100 |

OPERATING CONDITIONS FOR SOLAR CELLS

| | |
|---------------------|--|
| TEMPERATURE | 20 - 25°C |
| SPECIFIC GRAVITY | 1,240 +/- 0,01 |
| VOLTAGE ON CHARGE : | SOLAR APPLICATION |
| Float | 2.2 VPC @ 25 °C, i.e. 13.8 Volts |
| Boost | 2.35 - 2.4 VPC @ 25°C, i.e. 14.1 Volts |
| | STANDBY APPLICATION |
| Float | 2.2 VPC @ 25 °C, i.e. 13.8 Volts |
| Boost | 2.35 - 2.4 VPC @ 25°C, i.e. 14.1 Volts |

SELF DISCHARGE AT 20 °C: 0.5 Volts per month

| | |
|--------------|--|
| TERMINALS | M10 Stainless Steel Cap Screw (Torque 30Nm) |
| PLATE ALLOYS | Positive Plate Lead Antimony Negative Plate Lead Antimony |



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Alternating currents should not be allowed to go negative. Peak voltages and other wave shaped fluctuations may be accepted provided that the peak to peak system voltage without battery, but with the charger connector, remains within +/- 2.5% of the recommended voltage of the battery.

NB: Under no circumstances should the current flowing through the battery in the standby-parallel mode be reversed.