# Rolls

# FLOODED DEEP CYCLE BATTERY

# 2 YS 31P

| | | | |
|---|---|---|---|
| Series | 5000 | Warranty | 5 Years |
| Volts | 2 | BCI | SPEC |
| Cells | 1 | Plates/Cell | 31 |
| Terminal Type | | Flag | |
| Included Hardware | | S/S Hex Cap Screw, Nut, Lock & Flat Washer | |
| Size & Threads | | 5/16"-18 | |
| Cables | | 19" 4/0 interconnect cables *RE incl. | |

## Charge

| | |
|---|---|
| Charge Voltage Range | 2.45-2.5 V/cell @ 25°C (77°F) |
| Float Voltage Range | 2.25 V/cell @ 25°C (77°F) |
| Self-Discharge Rate | 5%-10% per month at 25°C (77°F) |

## Capacity

| | | | | |
|---|---|---|---|---|
| Cold Crank Amps (CCA) 0°F / -18°C | | | | 5741 |
| Marine Crank Amps (MCA) 32°F / 0°C | | | | 7176 |
| Reserve Capacity (RC @ 25A) | | | | 6065 Minutes |
| Reserve Capacity (RC @ 75A) | | | | 2022 Minutes |
| Capacity Affect by Temperature | 40°C (104°F) | 25°C (77°F) | 0°C (32°F) | -15°C (5°F) |
| | 105% | 100% | 75% | 50% |

| Hour Rate | Capacity / AMP Hour | Current / AMPs |
|---|---|---|
| @ 100 Hour Rate | **3260 AH** | **32.60 A** |
| @ 72 Hour Rate | **3083 AH** | **42.82 A** |
| @ 50 Hour Rate | **2919 AH** | **58.38 A** |
| @ 20 Hour Rate | **2527 AH** | **126.36 A** |
| @ 15 Hour Rate | **2350 AH** | **156.69 A** |
| @ 10 Hour Rate | **2249 AH** | **224.92 A** |
| @ 8 Hour Rate | **2173 AH** | **271.67 A** |
| @ 5 Hour Rate | **2022 AH** | **404.35 A** |
| @ 1 Hour Rate | **1137 AH** | **1137.24 A** |

Ampere hour capacity ratings based on specific gravity of 1.280 at 27°C (80°F). Reduce capacities 5% for specific gravity of 1.265 and 10% for 1.250.

## Specifications

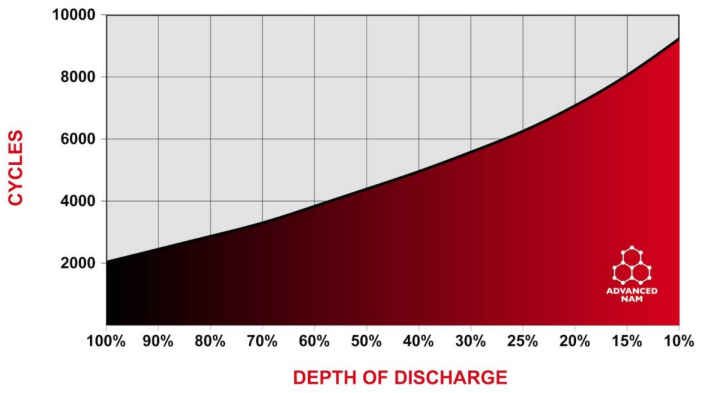
Certified System™ SAI GLOBAL ISO 9001 Quality

| | | |
|---|---|---|
| Weight | 129 kg | 284.5 lbs |
| Length | 39.4 cm | 15.5" |
| Width | 22.9 cm | 9" |
| Height Inc. Term. | 80.3 cm | 31.63" |

Product measurements & weights are calculated based on sample data. Individual specifications are subject to vary due to the manufacturing process & battery components.

| | | |
|---|---|---|
| Electrolyte Reserve | 95 mm | 3.75" |
| Container (Inner) | Polypropylene | |
| Cover (Inner) | Polypropylene - heat sealed to inner container | |
| Container (Outer) | High Density Polyethylene | |
| Cover (Outer) | High Density Polyethylene snap fit to outer container | |
| Handles | Molded | |

## Cycle Life vs. Depth of Discharge




## Voltage vs. Depth of Discharge

| DISCHARGE | 0% | 25% | 50% | 75% | 100% |
|---|---|---|---|---|---|
| 20 HR AH RATE | 2.10 V | 2.05 V | 2.02 V | 1.96 V | 1.75 V |
| 6 HR AH RATE | 2.10 V | 2.04 V | 2.00 V | 1.95 V | 1.75 V |
| 1 HR AH RATE | 2.10 V | 2.03 V | 1.99 V | 1.94 V | 1.75 V |

Rev.#3 | May 2019