

KS4-4.5AH (4V4.5Ah)

♦ Specifications */*

| Nomin | al Voltage | 4V | | | | | | |
|--------------|-------------------|--------------------|--|--|--|--|--|--|
| Rated capaci | ty (20 hour rate) | 4.5Ah | | | | | | |
| | Length | 50 \pm 1mm | | | | | | |
| Dimensions | Width | 50 ± 1 mm | | | | | | |
| Dimensions | Height | 100 \pm 1mm | | | | | | |
| | Total Height | 103 ± 1mm | | | | | | |
| Approx | k. Weight | 0.52kg(1.15lbs)±5% | | | | | | |

◆Characteristics ∕

◆Construction

| OHR(3.50V) | 4.5Ah | | | | |
|--------------|--|--|--|--|--|
| OHR(3.50V) | 4.2Ah | | | | |
| HR(3.20V) | 2.7Ah | | | | |
| l type | T1 | | | | |
| | Approx.15m Ω | | | | |
| 40℃ | 102% | | | | |
| 25℃ | 100% | | | | |
| 0℃ | 85% | | | | |
| -15℃ | 65% | | | | |
| 3month | Remaining Capacity:91% | | | | |
| 6month | Remaining Capacity:82% | | | | |
| 12month | Remaining Capacity:65% | | | | |
| | 25℃ ±3℃(77°F ±5°F) | | | | |
| Discharge | -15℃~50℃(5°F~122°F) | | | | |
| Charge | -10℃~50℃(14°F~122°F) | | | | |
| Storage | -20℃~50℃(-4°F~122°F) | | | | |
| oltage(25℃) | 4.50 to 4.60V Temperature compensation: -6mV/℃ | | | | |
| voltage(25℃) | 4.80 to 5.00V Temperature compensation: -10mV/℃ | | | | |
| ging current | 1.35A | | | | |
| arge current | 68A(5 sec.) | | | | |
| ng life(20℃) | 5 years | | | | |
| | 25°C 0°C -15°C 3month 6month 12month erating ure Discharge Charge Storage oltage(25°C) voltage(25°C) ging current arge current | | | | |











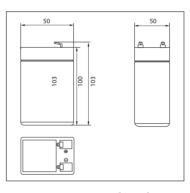


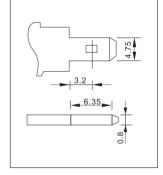
ISO9001











Dimensions (mm)

Terminal Type (mm)

- ♦ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

| Component Posi | | Positive plate | Negative plate | Container | Cover | Separator | Electrolyte | Safety valve | Terminal |
|----------------|----------|----------------|----------------|-----------|-------|-----------|---------------|--------------|----------|
| Raw | material | Lead dioxide | Lead | ABS | ABS | AGM | Sulfuric acid | Rubber | Copper |

◆Constant Current Discharge Characteristics Unit:A(25℃)

| F.V/Time | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 4.80V | 17.2 | 10.9 | 8.51 | 4.79 | 2.95 | 1.61 | 1.12 | 0.92 | 0.78 | 0.43 | 0.23 |
| 4.95V | 16.7 | 10.6 | 8.30 | 4.70 | 2.90 | 1.60 | 1.11 | 0.92 | 0.78 | 0.42 | 0.23 |
| 5.10V | 16.0 | 10.1 | 7.99 | 4.55 | 2.83 | 1.59 | 1.10 | 0.91 | 0.77 | 0.42 | 0.23 |
| 5.25V | 15.3 | 9.69 | 7.72 | 4.44 | 2.77 | 1.56 | 1.09 | 0.90 | 0.77 | 0.42 | 0.23 |
| 5.40V | 14.4 | 9.15 | 7.31 | 4.28 | 2.69 | 1.52 | 1.06 | 0.88 | 0.75 | 0.41 | 0.22 |

◆ Constant Power Discharge Characteristics Unit:W(25°C)

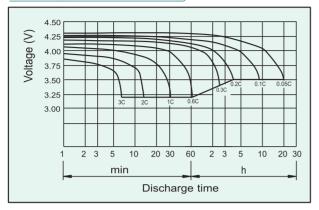
| F.V/Time | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 4.80V | 63.9 | 40.9 | 32.3 | 18.3 | 11.4 | 6.29 | 4.42 | 3.66 | 3.12 | 1.70 | 0.91 |
| 4.95V | 62.0 | 39.7 | 31.5 | 17.9 | 11.2 | 6.25 | 4.39 | 3.64 | 3.11 | 1.70 | 0.91 |
| 5.10V | 59.5 | 38.1 | 30.4 | 17.4 | 10.9 | 6.20 | 4.36 | 3.62 | 3.08 | 1.69 | 0.91 |
| 5.25V | 56.9 | 36.4 | 29.3 | 17.0 | 10.7 | 6.10 | 4.33 | 3.59 | 3.06 | 1.68 | 0.90 |
| 5.40V | 53.7 | 34.4 | 27.8 | 16.3 | 10.4 | 5.95 | 4.20 | 3.48 | 2.97 | 1.65 | 0.88 |

Note: The above characteristics data can be obtained within three charge or discharge cycles.

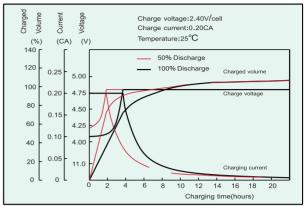


Rechargeable Battery

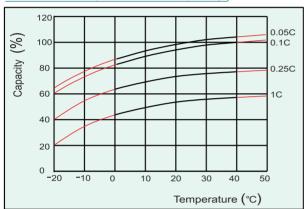
◆ Discharge characteristics(25°C)



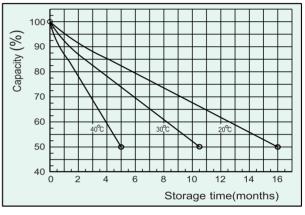
◆ Charging characteristics (25°C)



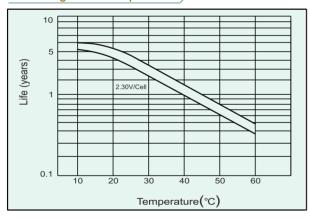
◆Effect of temperature on capacity



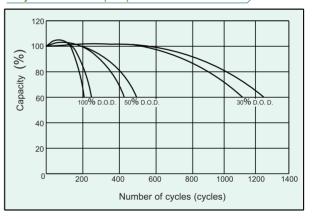
◆ Self-discharge characteristics



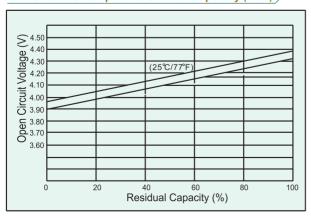
◆Floating life on temperature



◆ Cycle life on D.O.D(25°C)



◆The relationship for OCV and Capacity (25°C)



◆ The relationship for Charging voltage and Temperature

