



LEAD ACID BATTERY

Design life: 5 years

SK12-9 12V - 9,0AH

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.



BATTERY CONSTRUCTION

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

GENERAL FEATURES

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

PERFORMANCE CHARACTERISTICS

NOMINAL VOLTAGE 12V

NUMBER OF CELL 6

NOMINAL CAPACITY (25°C)

20 hour rate (0.48A - 10.5V)..... 9.60Ah

10 hour rate (0.86A - 10.5V)..... 8.60Ah

5 hour rate (1.59A - 10.2V)..... 7.95Ah

1 hour rate (6.66A - 9.6V)..... 6.66Ah

INTERNAL RESISTANCE

Fully Charged battery (25°C)..... 18 mOhms

SELF-DISCHARGE

3% of capacity declined per month at 20°C (average)

OPERATING TEMPERATURE RANGE

Discharge -20 — 60°C

Charge -10 — 60°C

Storage..... -20 — 60°C

MAX DISCHARGE CURRENT

77°F (25°C)..... 450A (5s)

CHARGE METHODS Constant Voltage Charge 77°C (25°C)

Cycle use..... 14,4 — 14,7V

Maximum charging current..... 3.60A

Temperature compensation..... -30mV/°C

Standby use..... 13,5 — 13,8V

Temperature compensation..... -20mV/°C

DIMENSIONS AND WEIGHT

Length (mm / inch)..... 151 / 5,94

Width (mm / inch)..... 65 / 2,56

Height (mm / inch)..... 94 / 3,70

Total Height (mm / inch)..... 100 / 3,94

Approx Weight (Kg / lbs)..... 2,40 / 5,28

Terminal Type : F2 (6,3MM)

DISCHARGE CONSTANT CURRENT (AMPERE AT 77°F 25°C)

| TIME | 5 min | 10 min | 15 min | 30 min | 60 min | 3 h | 5 h | 10 h | 20 h |
|---------------|-------|--------|--------|--------|--------|------|------|------|------|
| 1.60 V | 36,1 | 25,2 | 19,3 | 11,6 | 6,66 | 2,59 | 1,62 | 0,88 | 0,50 |
| 1.65 V | 34,6 | 24,3 | 18,5 | 11,1 | 6,42 | 2,53 | 1,61 | 0,87 | 0,50 |
| 1.70 V | 33,1 | 23,3 | 17,7 | 10,5 | 6,18 | 2,46 | 1,59 | 0,87 | 0,49 |
| 1.75 V | 31,6 | 22,2 | 16,9 | 9,86 | 5,94 | 2,39 | 1,57 | 0,86 | 0,48 |
| 1.80 V | 30,0 | 21,2 | 18,1 | 9,21 | 5,68 | 2,32 | 1,55 | 0,85 | 0,46 |

DISCHARGE CONSTANT POWER (WATTS/CELL AT 77°F 25°C)

| TIME | 5 min | 10 min | 15 min | 30 min | 45 min | 60 min | 2 h | 3 h | 5 h |
|---------------|-------|--------|--------|--------|--------|--------|------|------|------|
| 1.60 V | 74,1 | 47,2 | 35,1 | 21,5 | 15,9 | 12,4 | 6,85 | 4,84 | 3,27 |
| 1.65 V | 70,5 | 45,6 | 34,0 | 20,8 | 15,3 | 12,0 | 6,72 | 4,79 | 3,24 |
| 1.70 V | 66,9 | 43,9 | 32,9 | 20,0 | 14,7 | 11,5 | 6,59 | 4,74 | 3,21 |
| 1.75 V | 63,3 | 42,2 | 31,8 | 19,2 | 14,1 | 11,0 | 6,46 | 4,69 | 3,18 |
| 1.80 V | 59,7 | 40,5 | 30,7 | 18,4 | 13,5 | 10,5 | 6,32 | 4,64 | 3,15 |

INTERNATIONAL STANDARD REFERENCES

- EN 60896-21
- EN 60896-22
- BS 6290-4
- EN 50272-2
- EUROBAT 3-5 years "Standard commercial"

CERTIFIED

- ISO 9001
- ISO 14001
- UL Component

CASE BOX
Available in
Flame Retardant
UL94 V0 version