

## 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

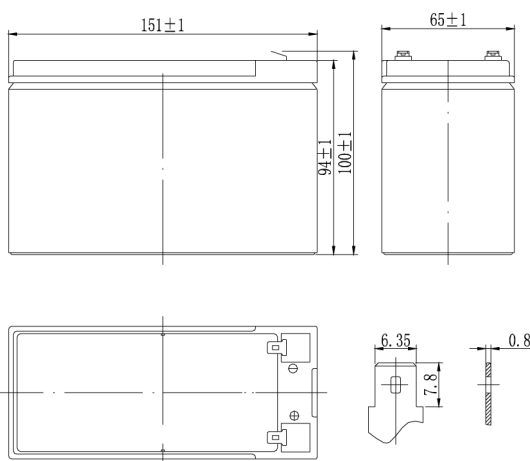
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed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

### 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)

### Battery and terminal dimensions



### 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

### 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

### 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