

## SK12-80S 12V - 80AH (C/10)

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) .....258 / 10,2  
 Width (mm / inch) .....166 / 6,54  
 Height (mm / inch).....206 / 8,11  
 Total Height (mm / inch).....216 / 8,46  
 Approx Weight (Kg / lbs).....23,5 / 51,7

Terminal Type : F11 (M6)

### Performance characteristics

**NOMINAL VOLTAGE**..... 12V  
**NUMBER OF CELL** ..... 6  
**NOMINAL CAPACITY (25°C)**  
 20 hour rate (4.33A - 10.8V) ..... 86.6Ah  
 10 hour rate (8.00A - 10.8V) ..... 80.0Ah  
 5 hour rate (14.40A - 10.5V) ..... 72.0Ah  
 1 hour rate (53.70A - 9.6V)..... 53.7Ah  
**INTERNAL RESISTANCE**  
 Fully Charged battery (25°C) ..... 5.7 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)..... 750A (5s)  
**CHARGE METHODS** Constant Voltage Charge 77°C (25°C)  
**Cycle use** ..... 14,4 — 14,7V  
 Maximum charging current..... 24A  
 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 10-12 years "High Performance"

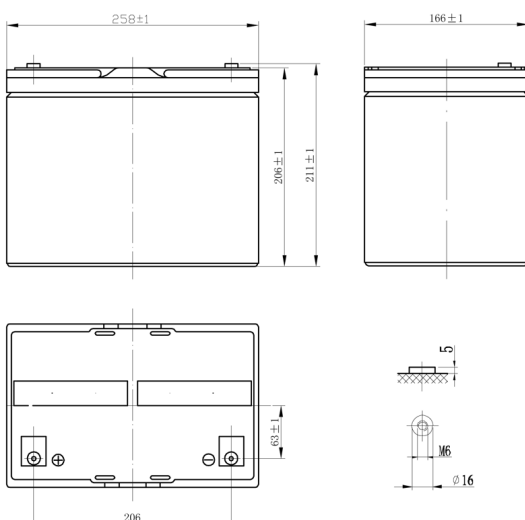
### CERTIFIED

- ISO 9001
- ISO 14001
- UL Component

### CASE BOX

Available in Flame Retardant UL94 V0 version

### Battery and terminal dimensions



### Discharge constant current (Ampere at 77°F 25°C)

TIME	5 min	10 min	15 min	20 min	30 min	45 min	60 min	2 h	3 h	5 h	10 h	20 h
<b>1.60 V</b>	245	188	149	118	87,3	66,2	53,7	30,5	22,7	15,0	8,20	4,46
<b>1.65 V</b>	233	178	137	110	83,0	62,2	51,6	29,8	22,5	14,7	8,15	4,44
<b>1.70 V</b>	218	168	132	106	80,3	61,0	49,8	29,2	22,4	14,7	8,10	4,38
<b>1.75 V</b>	204	159	126	102	77,6	57,3	47,1	28,1	21,8	14,4	8,05	4,36
<b>1.80 V</b>	190	149	118	96,5	75,0	56,9	46,3	27,1	20,7	14,1	8,00	4,33

### Discharge constant power (Watts/cell at 77°F 25°C)

TIME	5 min	10 min	15 min	20 min	30 min	45 min	60 min	2 h	3 h	5 h	10 h	20 h
<b>1.60 V</b>	433	323	258	212	165	124	98,6	56,5	42,5	27,9	16,1	8,76
<b>1.65 V</b>	420	310	250	204	157	122	97,8	55,3	41,1	27,4	16,1	8,64
<b>1.70 V</b>	390	299	246	199	151	117	93,8	53,7	40,4	27,0	16,1	8,52
<b>1.75 V</b>	368	287	232	191	149	114	92,3	53,0	39,9	26,8	16,1	8,40
<b>1.80 V</b>	349	275	218	182	146	111	88,5	51,4	39,0	26,4	14,8	8,28