

# SKB Lead Acid Battery SK12-55 12V – 55Ah SINERCOM SRL

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 Rubber	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 application.
- Maintenance-free operation.
- Low self discharge.

## DIMENSIONS AND WEIGHT

Length (mm / inch).....230 / 9.10  
 Width (mm / inch).....138 / 5.43  
 Height (mm / inch).....208 / 8.19  
 Total Height (mm / inch)....216 / 8.43  
 Approx Weight (Kg / lbs)....17.0 / 37.57

Terminal Type : F11 (M6 x 16 mm)

## PERFORMANCE CHARACTERISTICS

**NOMINAL VOLTAGE**.....12V  
**NUMBER OF CELL**.....6  
**DESIGNE LIFE**.....10 years

### NOMINAL CAPACITY (25°C)

- 20 hour rate (3.00A - 10.5V).....60,0Ah  
 - 10 hour rate (5.50A - 10.5V)..... 55,0Ah  
 - 5 hour rate (8.80A - 10.5V)..... 44.0Ah  
 - 1 hour rate (33.0A - 9.6V).....33.0Ah

### INTERNAL RESISTANCE :

Fully Charged battery (25°C).....6.5 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) :**.....560A (5s)

**SHORT CIRCUIT CURRENT :** .....1000A

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

**Cycle use**..... 14,4 – 14,7V

Maximum charging current.....22.0A

Temperature compensation.....-30mV/°C

**Standby use**.....13,6 – 13,8V

Temperature compensation.....-20mV/°C

## DISCHARGE CONSTANT CURRENT (Ampere at 77°F 25°C)

TIME	5 min.	10 min.	15 min.	30 min.	60 min.	2 h	3 h	4 h	5 h	8 h	10h	20 h
<b>1.60V</b>	176	116	94	63	33.0	19.3	14.1	11.0	9.1	6.4	5.8	3.1
<b>1.70V</b>	171	105	88	60	31.0	18.4	13.8	10.7	8.9	6.3	5.7	3.0
<b>1.75V</b>	165	94	77	56	30.0	17.9	13.4	10.6	8.8	6.2	5.5	3.0
<b>1.80V</b>	159	88	72	52	29.0	17.5	13.1	10.4	8.6	6.1	5.4	3.0
<b>1.85V</b>	154	83	66	46	28.1	17.1	12.7	10.1	8.4	5.9	5.2	2.8

## DISCHARGE CONSTANT POWER (Watts at 77°F 25°C)

TIME	5 min.	10 min.	15 min.	30 min.	60 min.	2 h	3 h	4 h	5 h	8 h	10h	20 h
<b>1.60V</b>	1822	1239	1003	674	356.4	211.7	159.2	123.8	103.9	73.7	66.7	36.3
<b>1.70V</b>	1818	1169	986	673	350.8	211.4	157.3	121.7	103.2	73.4	66.6	35.5
<b>1.75V</b>	1802	1066	879	646	347.7	208.0	156.4	123.6	103.2	73.1	65.7	35.4
<b>1.80V</b>	1785	1018	825	599	328.0	204.8	154.3	122.7	101.4	71.7	65.4	35.4
<b>1.85V</b>	1743	958	770	541	329.9	201.5	150.3	120.5	99.8	70.5	63.1	34.0