

Replacement for Simplex 2081-9271 (112-047)

Battery Specification Sheet

SLA1154

Technical

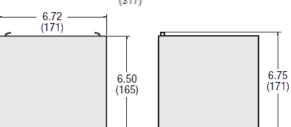
Nominal Voltage	12.0 V
Nominal Capacity (20HR)	33.0 Ah
Chemistry	Lead Acid (AGM)

Charging

Initial Charging (Current	10.0 A
Cycle Use	14.4V~14.7V	at 25°C(77°F)
Standby Use	13.6V~13.8V	at 25°C(77°F)

Physical

Length	317.50 mm	12.50 in.	
Width	85.5 mm	03.375 in.	
Height	165.10 mm	06.50 in.	
Total Height (w/ terminals)	171.45 mm	06.75 in.	
Weight	11.36 kg	23.10 lbs	
Terminal Type	.250" Faston		
Case Material	Black ABS		



Capacity

 Nominal Capacity at 77°F (25°C) Voltage readings are per cell

 20 Hour Rate (1.65 amps to 1.75 volts)
 33 Ah

 10 Hour Rate (3.1 amps to 1.75 volts)
 31 Ah

 5 Hour Rate (5.4 amps to 1.60 volts)
 27 Ah

 1 Hour Rate (19 amps to 1.60 volts)
 19 Ah

 1/2 Hour Rate (35 amps to 1.60 volts)
 17.5 Ah





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Charging vs Temperature

The charging of Carefree batteries is best accomplished in a temperature range of 60°F to 90°F. Charging within this temperature range requires no temperature compensation. For applications over a wider temperature range, charging voltage must be changed as a function of temperature. (see chart at right)

Capacity vs Temperature

The efficiency of the lead-acid system decreases as the temperature decreases and increases as temperature increases from room temperature (77°) as illustrated. These four curves shown are based on discharges at the 20 hour, 5 hour, 1½ hour and 1 hour rates.

Self-Discharge Characteristics

High temperature increases the rate of self-discharge of all battery systems but even in this respect, the lead-calcium battery is perhaps least affected. In general, the rate of self-discharge can be expected to double for each 20°F rise in temperature above 70°F.

Battery Operating Conditions & Cautions

Battery contains toxic material (lead) and corrosive fluid (sulfuric acid) · Charging can produce explosive gases · Do not charge in gas tight enclosures · Charge battery in a well-ventilated area away from sparks, flames or smoking · Use approved voltage controlled charger · Do not short-circuit battery terminals, as this can cause an explosion or fire · Keep batteries and chargers away from children · Charge battery as soon as possible after use · Do not store battery in discharged state · Do not puncture, disassemble, mutilate or incinerate · MUST BE RECYCLED OR DISPOSED OF PROPERLY

Installation Care

All CAREFREE batteries are carefully assembled and with proper charging will provide excellent service. When placing the battery into service it must be inspected to make sure that the battery has not been damaged by rough handling. If the unit has been damaged, there is a possibility of a loss of a small amount of sulfuric acid electrolyte and possible corrosion of adjacent components. Any sulfuric acid can cause severe burns to the skin and eyes. If contact is made with a damaged battery, immediately wash the contacted area with water for at least 5 minutes. When installing the battery in equipment, ventilation must be provided. Toward the end of charge and under overcharge conditions, hydrogen and oxygen gas can be generated. If this gas is allowed to accumulate in the enclosure and a spark is introduced, an explosion could result.

