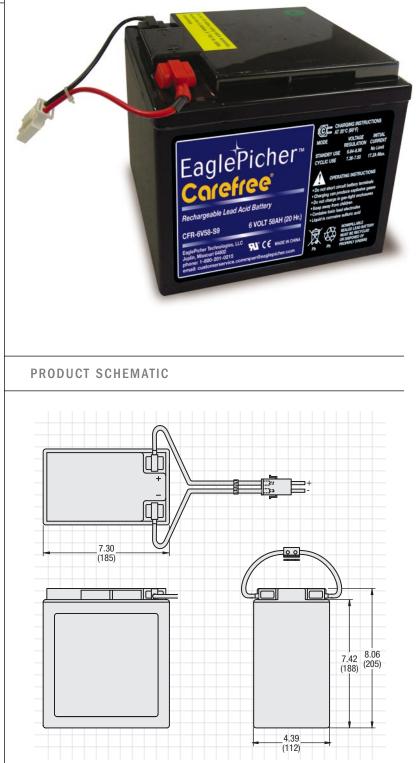
EaglePicher

Carefree®

CFR-6V58-S9

SPECIFICATIONS CFR-6V58-S9

	-
Nominal Open Circuit Voltage6.36V	
Nominal Working Voltage 5.94V	
Nominal Capacity at 77°F (25°C)	
Voltage readings are per cell	
20 Hour Rate	
(2.9 amps to 1.75 volts) 58.0 ampere hours	
10 Hour Rate	
(5.4 amps to 1.75 volts) 54.0 ampere hours	
5 Hour Rate (9.8 amps to 1.75 volts) 49.0 ampere hours	
1 Hour Rate	
(34.00 amps to 1.60 volts) 34.0 ampere hours	
1/2 Hour Rate	
(59.2 amps to 1.60 volts) 29.6 ampere hours	
Max. Physical Size:	
Length 7.30 inches (185mm)	
Width 4.39 inches (112mm)	
Height (excluding terminals) 8.06 inches (205mm)	
Height (including terminals) 8.06 inches (205mm)	
Weight 25.0 lbs (11.3kg)	
Energy Density	+
(20 Hour Rate) 1.35 watt hrs/cu in	
(20 Hour Rate) 13.9 watt hrs/lbs	\vdash
Operating Temperature Range	
Discharge60°F to +165°F (-50°C to +74°C) Charge 0°F to +120°F (-18°C to +49°C)	
-	
Recharging Methods: Float Charging: Constant Potential Source of	
6.84 to 6.96 volts continuously.	
Routine Charging: Constant Potential Source of	
7.35 to 7.50 volts with a charging current of	
17.2 ampere maximum.	
Terminal: Cable assembly with TEW-105 (#12 AWG) tinned copper wire; black - negative, red - positive;	
5.12 inches long from edge of battery to end of	
connector; AMP connector housing 770017-1 Plug Kit	
and 2 AMP sockets 770004-3	
Case Material: Polycarbonate Flame Class: UL94 V-0 exceeds oxygen index 28	
Float Life Expectancy: 8+ years at 77°F (25°C)	
Two Year Full Warranty at average battery temperature of 77°F (25°C) or less	
	1

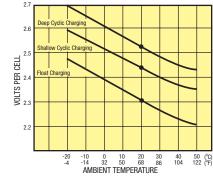


Above data are average values which can be obtained within 3 charge/discharge cycles. These are not minimum values.

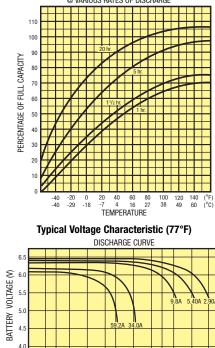
MAINTENANCE-FREE RECHARGEABLE BATTERIES

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Charge Voltage per Cell vs. Temperature



Capacity as Affected by Temperature @ VABIOUS BATES OF DISCHARGE

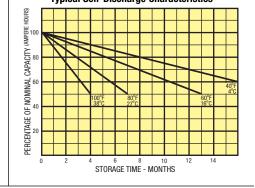


10 20

hrs

DISCHARGE TIME
Typical Self-Discharge Characteristics

min



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, $1^{1}/_{2}$ 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.

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Eagle Picher Commercial Power Solutions

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