



TSP-1749L

P/N 33283-001



TECHNICAL DESCRIPTION

The TSP-1749L (p/n 33283-001) is a 20-cell Super Power Nickel Cadmium battery, with a nominal voltage of 24V, and a nominal capacity of 17 Ah, at a weight of only 38.5 lbs. (max). The TSP-1749L will provide an Imp (15-second discharge @ maximum power transfer) of 800 amps at room temperature.

STANDARD WARRANTY: 2 years

APPLICATION

The TSP-1749L is designed as a high power battery providing ample current for APU or Engine Starting and providing emergency power in commercial, corporate, or military aircraft. The TSP-1749L battery is specifically designed with the goal of providing optimal power with extended life and reliability.

The TSP-1749L was designed to meet or exceed all of the electrical and environmental requirements of RTCA/DO-293

PHYSICAL SPECIFICATIONS

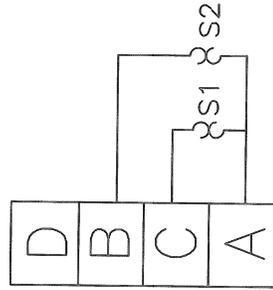
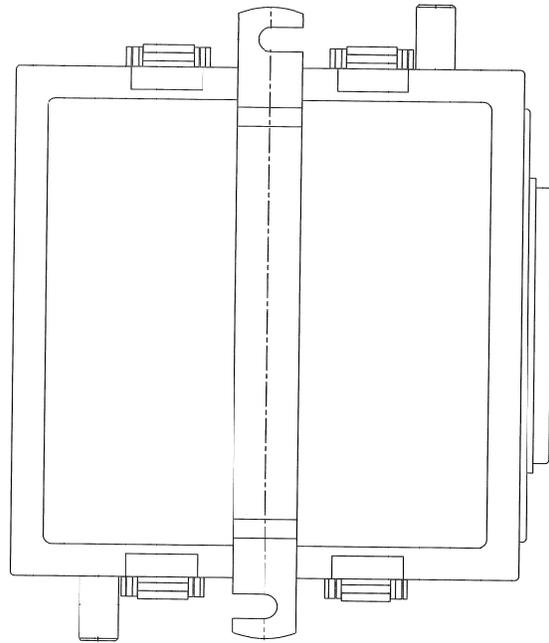
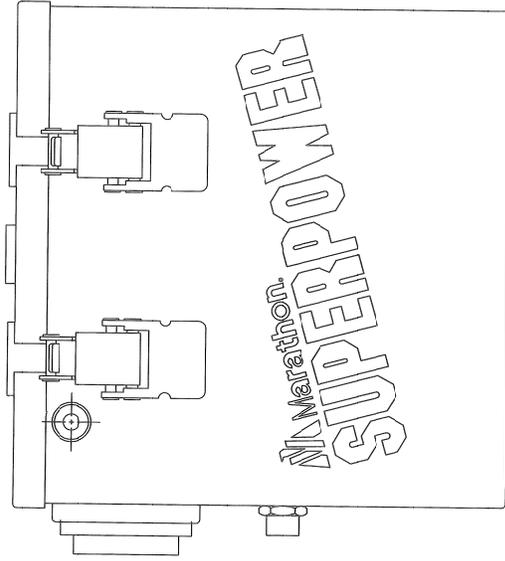
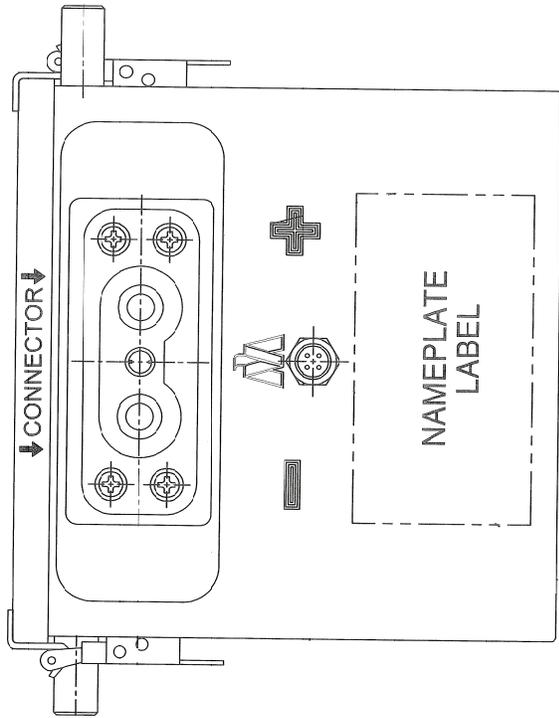
Length: 7.65" max
Width: 7.72" max
Height: 7.75" max
Weight: 38.5 lbs.
Connector: MS3509

ELECTRICAL SPECIFICATIONS

Voltage: 24.0 volts (nominal)
Capacity: 17Ah minimum (at C-rate)
Imp : 800A @ 15 seconds
(Discharge current at maximum power transfer)

The Marathon TSP-1749L Super Power battery is a greatly improved nickel-cadmium (Ni-Cd) battery that features:

- High porosity sintered carbonyl Nickel electrodes utilizing a Nickel-Steel foil substrate for improved current collection and increased cell reliability.
- Long life, durable micro porous polypropylene gas barrier membrane of proven durability in hot oxidizing environment has eliminated the classic "Thermal Run-a-way" problem with early Nickel Cadmium batteries.
- Long life, durable microfiber polypropylene fabric on both sides of the gas barrier provide superior wicking action that enables the electrolyte conductivity to remain high even if the electrolyte level is below the top of the electrodes.
- Ternary electrolyte solution is specifically formulated to provide excellent cell performance over a wide range of temperatures.
- Redundant temperature sensors that can be used to disable battery charging or alert crew of increased battery temperature.
- Stainless Steel battery case and cover assembly that withstands corrosion.



MS3114-P8-4P

SCHEMATIC



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