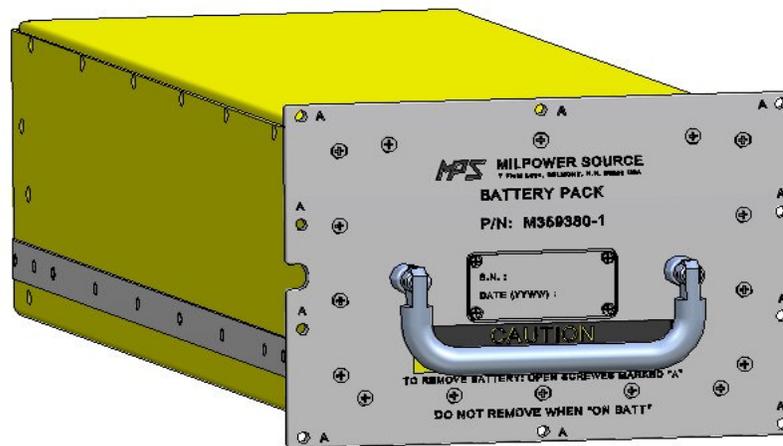


Datasheet

P/N M359380-1 Battery Pack

Used on UPS Model M359-1



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1. General

The M359380-1 is a replacement Plug-in Battery Pack intended for use in Milpower UPS Model M359-1. The battery pack houses eleven valve-regulated lead acid cells connected in series. Each cell is rated for 12V, 5AH, resulting in a total source of 132Vdc, 5AH. The cell construction and sealing technique ensures that no electrolyte leakage should occur from the terminals or case. The cells are packaged inside an aluminum case and are secure in place by epoxy. The Battery Pack contains a thermistor that enables the battery-charger of the M359-1, to trim the charging-voltage as function of temperature.

2. Caution!

The M359380-1 Battery Pack is heavy. It weighs 52 pounds and should be lifted by two persons.

The Replaceable Battery contains lead-acid batteries. Dispose the Battery Pack properly. Careless disposal (such as into a fire) may cause an explosion. Local regulations may require controlled disposal of lead-acid batteries. Please check your local regulations before disposal.

The Battery Pack should not be opened since it can only be replaced with a new pack. (The internal cells cannot be safely replaced).

3. Characteristics

Nominal Voltage:	132Vdc
Capacity:	5 Ampere Hours
Hold-Up Time:	10 Minutes at 1500W load (when installed in an M359-1).
Storage Temperature:	-40° to +72°C (Please see Para 4.1)
Operating Temperature:	0°to +52°C
Nominal Weight:	52 Lb

4. Battery Service Life

The lead-acid, sealed and maintenance-free battery used in the M359-1 is of the highest quality. Nevertheless, it is a Limited Life Item, and its life expectancy depends upon its operating and storage conditions. The three most important factors that determine the life

of the battery are: temperature, storage conditions and the number and depth of charge-discharge cycles.

4.1. Temperature

The battery cells used in the M359380-1 are sealed and do not “dry up” or lose gasses. The end of service life of these cells is brought about by the gradual corrosion of the electrodes. This process is accelerated by high operating temperatures.

Every 10°C rise above 20°C will reduce the battery service life by half.

4.2. Storage Conditions

When lead-acid batteries are stored for extended periods of time, lead sulfate is formed on the negative plates and insulates them. The sulfating rate depends on the ambient temperature and the charge level of the battery. High temperature and low charge level accelerate the sulfating and reduce the battery life.

In order to protect your battery from damage during storage:

- a) Make sure the battery is fully charged periodically (every 4 months if the temperature is approximately 24°C, and every 2 months if the temperature is higher than 37°C) by operating the M359-1 for at least 4 hours.
- b) Store the batteries in a cool place (may be stored separately from the UPS).
- c) **Never store a discharged battery!!!**

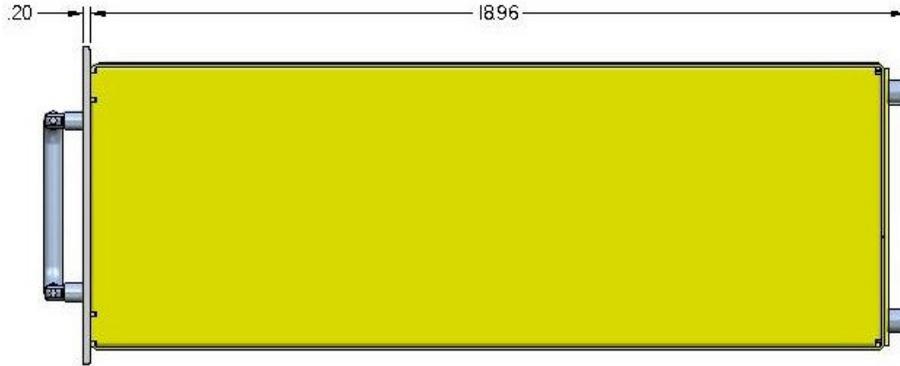
4.3. Charge-discharge Cycles

The number and depth of battery charge/discharge cycles affects the service life of the battery. If the battery is allowed to discharge only to 50% of its charge, the number of charge-discharge cycles (before it fails) will be three times the number of cycles had it been allowed to reach 30% charge. **Battery life may be prolonged by limiting the operating time on battery power to the minimum required by the system to perform an orderly shutdown.**

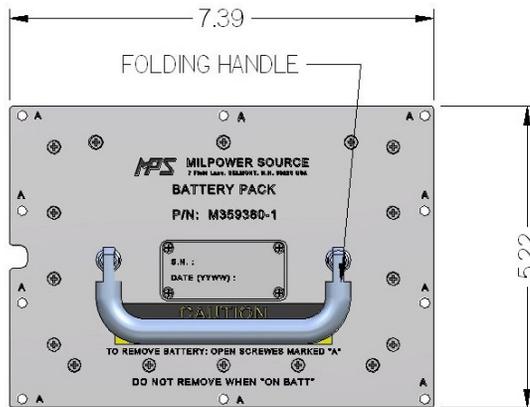
5. Replacing the Battery Pack

Please see the M359 Users Manual for Battery Replacement instructions.

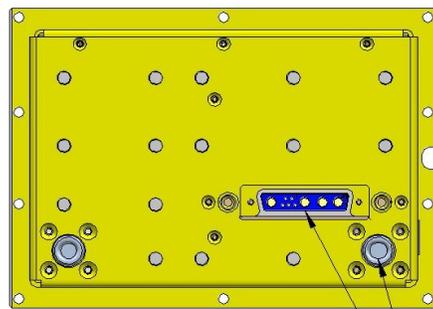
6. Outline Dimensions



Top View



Front View



CONN CBM9W4F2000X OR EQ.

BUSHING 2 PLACES

Back View