



DEEP SULFATION REMOVAL

SWEEPING PULSE TECHNOLOGY

S-1000 BATTERY MAINTENANCE SYSTEMS

The DeSulfator S-1000 is a heavy duty, solar powered, battery desulfation and charging system suitable for vehicles and power equipment with medium capacity storage batteries or parasitic loads with 12, 24 or 36 volt battery configurations.

As with our other DeSulfator products the S-1000 is designed to remove and eliminate the sulfation build up on lead acid batteries as well as provide an effective charge into larger battery sets during the course of the day.

HOW DOES IT WORK?

By providing a sweeping energy pulse into the battery from its high output solar circuit, sulfation build up is reverted back into the batteries electrolyte solution freeing up 100% of the available capacity of the battery. The energy produced by the solar circuit is typically sufficient to offset the self discharge of battery banks with a 12,000 watt hour capacity. (Based on a minimum insolation value of four peak sun hours. Consult your IES representative for insolation values in your geographic region.)

DeSULFATOR CHARGES

The S-1000 is a powerful 10 watt UNBREAKABLE solar battery charger constructed of durable stainless steel encapsulated with heavy duty Tedlar. Designed to be easily secured to large mobile equipment that remains idled for any length of time, its sunlight induced energy will offset the natural self discharge of the equipment batteries. The S-1000 typically replaces 1,200 watt hours of lost battery capacity per month.

DeSULFATOR ELIMINATES SULFATION

The S-1000 is a high frequency pulse generator which cleans the battery's plates of sulfation build up, thus allowing the battery to accept a full charge. When the DeSulfator is installed on a new battery, sulfation will never become a problem that must be dealt with. The S-1000 begins to clean the battery plates in as little as 10% sunlight.

8 YEAR LIMITED WARRANTY

Built tough for high reliability, DeSulfator Battery Maintenance Systems have no moving parts to wear and are warranted on performance and against defects for eight years. This device generates no heat, high voltage danger, audible noise, and can in no way harm the battery itself.



APPLICATIONS

- MILITARY EQUIPMENT
- COMMERCIAL FLEET VEHICLES
- RECREATIONAL VEHICLES
- CONSTRUCTION EQUIPMENT
- RENEWABLE POWER SYSTEMS
- AIRFIELD GROUND EQUIPMENT
- EMERGENCY VEHICLES
- HIGHWAY EQUIPMENT
- GOLF CARTS
- FARM IMPLEMENTS
- PORTABLE GENERATOR SETS

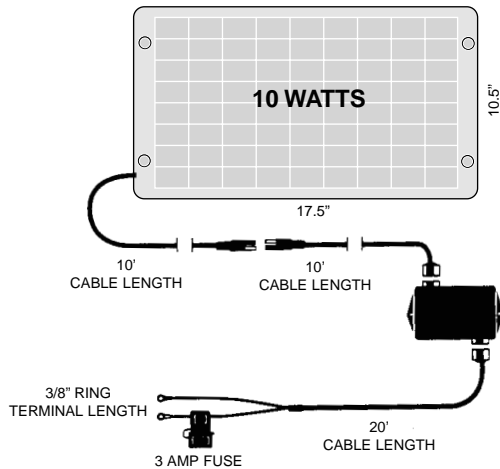


S-1000 BATTERY MAINTENANCE SYSTEMS

DeSulfator Battery Maintenance Systems are heavy duty, high output solar powered battery de-sulfation and charging systems suitable for vehicles and power equipment with 12, 24, or 36 volt batteries. DeSulfator Battery Maintenance Systems are designed to remove and eliminate sulfation build-up on lead acid batteries while introducing an effective charge into the battery set during the course of the day.

Designed for superior performance and quality, all DeSulfator Battery Maintenance Systems have weather-proof, epoxy resin encapsulated circuitry; 16 gauge UV resistant wiring; heavy-duty strain relief connections; 3 amp fused battery output cables; SAE weather tight connectors and a high-grade, heavy duty crystalline solar module.

DeSulfator power modules meet or exceed strenuous environmental, mechanical and electrical testing including:



Thermal Cycling	-40° to +90°C
Humidity/Freeze	-40° to +85°C @ 85% RH
Mechanical Loading	10,000 cycles @ 50lbs./ft ²
Hail Impact	1" ice ball @ 52 mph
Wet High Pot Test Submerged	500 volts DC applied, 5 uA drain

Easy to install, using its grommets, the solar circuit can easily be permanently installed or simply lashed down for quick removal. The solar circuit has a 96" output cable with a molded connector to mate with the 120" input cable on the electronics box.

The electronics box is designed to be permanently mounted next to the battery set.

USE OF THE DeSULFATOR WILL:

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| Condition battery without the damaging effects of equalization | Increase reliability of equipment |
| Increase battery life | Decrease battery replacement costs |
| Increase battery performance | |

S-1000 SPECIFICATIONS

CIRCUIT EFFICIENCY: 90%

PULSE FREQUENCY (Hz): 10,000 - 100,000

NOMINAL RATING: 10 Watts

AVG CURRENT: 580ma@12V, 290 ma@24V, 190 ma@36V

OUTPUT VOLTAGE: 52V

PANEL SIZE: 17.5" x 10.5" x .25"

PANEL WEIGHT: 2.5 lbs.

ELECTRONICS SIZE: 3" x 2" x 1.5"

WEIGHT: 2 lbs.

INNOVATIVE ENERGY SYSTEMS

9351 J. PHILADELPHIA ROAD • P.O. BOX 70060 • BALTIMORE, MARYLAND 21237-6060

Telephone: 410-686-3120 • FAX 410-686-4271

MADE IN U.S.A.