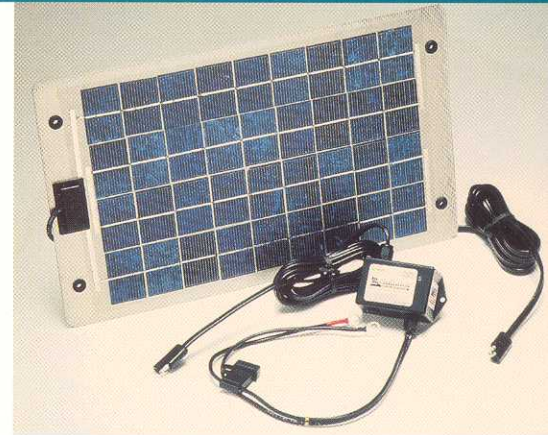




DEEP SULFATION REMOVAL

SWEEPING PULSE TECHNOLOGY

# Solar Series Battery Maintenance Systems



**NO MORE DEAD BATTERIES** – DeSulfator Battery maintenance systems are designed to keep batteries at 100% state of charge, by combining high output solar charging with our patented sweeping pulse generator. This means no more time spent performing routine battery maintenance or replacing weak batteries. Equipment will always be ready for use no matter how long it is left unattended.

**WHY BATTERIES FAIL** – When a lead acid battery is discharged, a soft lead sulfate material forms on the plates. During the recharge process, this material recombines with the batteries electrolyte solution. If, however, the battery is left in a partial state of discharge for as short as 70 hours, the lead sulfate material will begin to harden and crystallize forming a permanent insulative barrier. As the barrier becomes thicker and thicker, the battery’s ability to accept a charge or deliver energy is diminished, resulting in the perception that the battery is no longer useable.

**HOW IT WORKS** – 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. The net energy produced by the solar charger replaces energy lost from the self discharge of the battery and any parasitic loads from the equipment. The combined results of these two processes enable the battery to remain in peak operating condition.

**WHY THE DESULFATOR** – IES has been in the solar battery charging business for over 20 years. We understand what it takes to keep and maintain batteries in peak operating condition. Each kit has been comprehensively engineered and built tough to insure maximum performance, durability and reliability.

Each kit is equipped with all mounting hardware and wiring to facilitate a quick and complete installation. Models are available to meet any battery maintenance equipment. 10 Year Limited Warranty.

## APPLICATIONS: –

### Construction Equipment



### Portable Gen-Sets



### Tactical Military Equipment



Model	Voltage	Charging Current	Charger Dimensions	Weight	Suggested Battery/Capacity*
S-100	12	50mA	6.0x6.0x.25	1lb	22NF/<55aHr
S-280	12/24	140mA/70mA	10.0x11.25x2.0	3lb	GP24/<80aHr
S-550-12	12	330mA	10.8x10.5x.25	4lb	GP27/<100aHr
S-550-24	24	140mA	18.0x11.25x2.0	7lb	2-GP24/<80aHr@24VDC
S-1000-12	12	580mA	17.5x10.5x.25	3lb	8-D/<250aHr
S-1000-24	24	290mA	17.5x10.5x.25	3lb	2-4D/<125aHr@24V
S-2000-24	24	580mA	19.5x21.0x1.5	7lb	2-8D/<250aHr@24VDC

# INNOVATIVE ENERGY SYSTEMS

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