



# MILITARY VEHICLE VC Series Battery Maintenance Charger Kits

The IES VC Series, high capacity chargers are part of the IES line up of photovoltaic battery chargers and conditioners designed for all tactical and construction vehicle equipment. They offer the unique combination of being a light-weight, low profile, extremely rugged and easily installed solar battery charger.

The VC Series effectively offsets battery self discharge and parasitic loads from certain electrical components (i.e. anti-lock brakes & electrical engine controls) on all vehicles equipped with 1, 2 or 4 6TL or 6TLFP battery systems.

Outstanding efficiency coupled with durable construction make the IES chargers the world leader in military battery maintenance systems.

## PROVEN MATERIALS & CONSTRUCTION

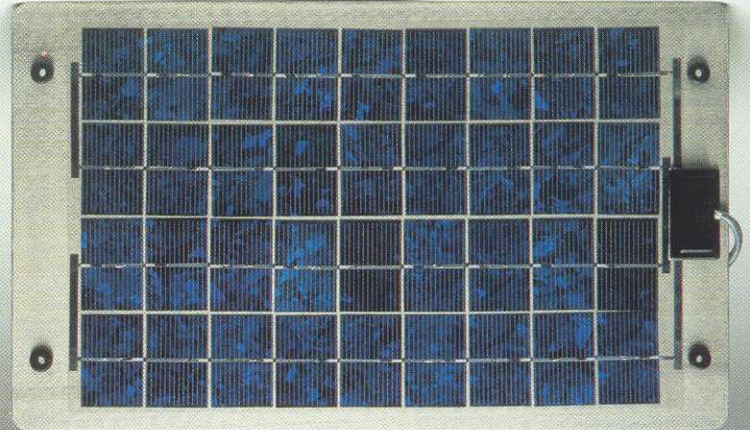
The components used in the systems reflect nearly two decades of experience with solar charging systems in virtually every climate and application.

- Crystalline solar cells to produce stable, reliable power (TACOM RD&E 13519 Tech Report)
- Laminated module design with a Tedlar face, EVA encapsulant and a heavy duty, stainless steel backplate
- UV resistant cabling with weather-resistant connectors for protected, easy and trouble-free operation

## EASILY MOUNTED - LOW PROFILE APPEARANCE

Each IES VC Series charging circuit is equipped with neoprene, grommeted mounting holes for a permanent, mechanical fastening to the vehicle. Each also comes with a set of strong adhesive backed, mushroom type reclosable fasteners for those types of applications where drilling holes is not desired or the removal of the panel is important. Each charging system is provided with a polarized cable assembly for quick and safe connection/disconnection to the battery.

When mounted, the average profile of the charger is less than 1/2 inch.



## APPLICATIONS

- COMMERCIAL FLEET VEHICLES
- CONSTRUCTION EQUIPMENT
- AIRFIELD GROUND EQUIPMENT
- EMERGENCY VEHICLES
- PORTABLE GENERATOR SETS
- HMMWV's
- PRIME MOVERS
- TANKERS



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# Performance You Can Count On

The laminated construction used in the VC Series chargers has passed rigorous testing, with no performance degradation for:

- Repetitive cycling between -40°C and 90°C
- Repetitive cycling between -40°C and 85°C at 85% relative humidity
- Wind loads exceeding 125 mph
- Rugged, time proven charging circuit designed for harsh outdoor use. "Can be used inside vehicle when properly oriented to the sun through a window."

## FEATURES

- Long 20 ft. UV resistant cabling
- Weather-resistant quick connectors
- Built-in blocking diode to prevent reverse current flow
- Polarity protected, fused battery leads
- Ample voltage for charging in all climates
- Detailed instructions
- Optional field camouflage cover

## SPECIFICATIONS

### VC-4 NSN 6130-01-449-7590

High capacity, 12 volt solar charging system

Dimensions: 17.5" x 10.5" x .4"

Weight: 2.5 lbs.

Voltage @ Peak Power 17.1V

Current @ Peak Power .58A

Avg. Output 45 watt hours

3.76 amp hours/day @ 12VDC

### VC-5 NSN 6130-01-449-7594

High capacity, 24 volt solar charging system

Dimensions: 17.5" x 10.5" x .4"

Weight: 2.5 lbs.

Voltage @ Peak Power 34.2V

Current @ Peak Power .25A

Avg. Output 45 watt hours

1.88 amp hours/day @ 24VDC

Output based on the worldwide average sun hours.

All IES VC Series solar battery charging systems are complete with charger, fused/polarized battery lead, installation accessories and detailed instructions.

## INNOVATIVE ENERGY SYSTEMS

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

Telephone: 410-686-3120 • FAX 410-686-4271 • [www.innovativeenergy.com](http://www.innovativeenergy.com)

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