**OPTIMATE 5** can save a neglected / sulfated lead-acid battery unable to accept charge from the engine charging system (even after jump starting). The multi step charging system is suitable for any type of 12V lead-acid battery. During the 24/7 auto storage control the battery is tested every hour and recharged as necessary. The universal input system accepts AC power between 100 to 240VAC (incl. generator / inverter). Hook it up anywhere in the world, walk away, OptiMate5 does the rest, automatically, safely. Recommended for all lead-acid batteries from 72Ah – 120Ah. P/N 11-07220 $79.85

**OPTIMATE 6** can save a neglected / sulfated lead-acid battery unable to accept charge from the engine charging system (even after jump starting). The micro processor controlled multi step charging system with cell equalizing is suitable for deep cycle and starter (SL) batteries and the amphotatic auto current control takes the guesswork out of charge current selection. During the continuous maintenance and testing cycle the battery is tested daily and recharged as necessary. Hook it up, walk away, OptiMate6 does the rest, automatically, safely. Recommended for all lead-acid batteries from 15Ah – 240Ah. P/N 11-07221 $107.90

**OPTIMATE PRO-5** has a charging system able to save a neglected *sulfated battery that cannot accept charge from a standard charger or the engine charging system. Battery power is optimized during bulk, absorption & cell balancing charge modes, and then tested to verify charge retention. Battery life is extended if left connected to OptiMate PRO-5 when vehicle/craft/equipment is not in use. Initializes, desulfates & charges 1 x 12V battery at a time – from small to large. P/N 11-07222 $168.75

**OPTIMATE PRO-2** OptiMate PRO-2 initializes, desulfates & charges 2 x 12V batteries at a time or a 24V system, made up of 2 x 12V batteries. The OptiMate PRO-2 has two independent charging systems able to save a neglected *sulfated battery that cannot accept charge from a standard charger or the engine charging system. Battery power is optimized during bulk, absorption & cell balancing charge modes, and then tested to verify charge retention. Battery life is extended if left connected to OptiMate PRO2 when vehicle/craft/equipment is not in use. Note: This charger cannot be used on a 24V battery. A battery discharged over time that has built up chemical resistance to charging, but otherwise undamaged and measuring at least 2V. PN 11-07223 $236.95

*A battery discharged over time that has built up chemical resistance to charging, but otherwise undamaged and measuring at least 2V.

**OPTIMATE DIAGNOSTIC DESULFATING CHARGERS AND TESTERS**

**SOLAR PULSE**

A unique solar charger provides clean, quiet energy

- Cleans battery plates of large, damaging lead-sulfates so batteries can accept, store and release MAXIMUM power when you need it
- Helps offset energy-robbing key-off parasitic loads (see chart below)
- Works with all lead-acid batteries (flooded cell, AGM and gel)
- Ideal for virtually any kind of vehicle and equipment in areas with out access to electrical power
- Low-profile industrial-strength solar panel mounts flat (no frame required) so it's virtually indestructible
- Prevents the normal loss of battery power on vehicles stored outside no matter how long they sit unused — even months at a time
- Helps extend battery life up to 3X longer
- Choose from three models: 2-Watt, 5-Watt and 6-Watt
- The 5-Watt solar panel is almost HALF THE SIZE of other 5-watt panels yet offers full 5-watt power
- The smaller 5-watt panel provides more installation options
- The 6-watt model is ideal for emergency rescue and law enforcement vehicles because it has a unique rectangular solar panel designed to easily mount on any light bar
- 2- and 5-Watt models include 17-feet of wire between circuit box and solar panel, and the 6-Watt includes 14 feet of wire
- Five-year limited warranty

**AUXILIARY POWER UNIT (APU) & BATTERY CHARGER**

Designed to supply filtered DC bus power through standard APU receptacle in private and commercial aircraft. Up to 25 or 50 amp is available for operating avionics and flight control systems when the master switch is activated. It can also charge the battery through the plug at a 10 amp rate. Output is current limited, and will withstand starting loads. Voltage is limited to prevent battery overcharging. DC Current and voltage are displayed on panel meters, voltage accurate to 00.00. NOTE: Available with Piper plug too.

<table>
<thead>
<tr>
<th>Model</th>
<th>P/N</th>
<th>DC Amps</th>
<th>DC Volts</th>
<th>AC Power</th>
<th>Dimensions H.W.D.</th>
<th>Wt.</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Single Pin Plug 14v 25amp</td>
<td>11-07068</td>
<td>25</td>
<td>14</td>
<td>117 volts 60Hz. 3amps</td>
<td>8.5x10x12</td>
<td>22</td>
<td>$5645.00</td>
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<tr>
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<td>11-07067</td>
<td>25</td>
<td>28</td>
<td>117 volts 60Hz. 6amps</td>
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<td>Single Pin Plug 28v 25amp</td>
<td>11-08146</td>
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<td>117 volts 60Hz. 6amps</td>
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<td>33</td>
<td>$6696.00</td>
</tr>
</tbody>
</table>

**REDIPULSE PRO-12 CHARGE/Maintenance System**

The PulseTech Pro-12 Charge/Maintenance System. It is designed to keep new batteries “factory-fresh” while they rest on the shelf waiting to be installed or sold. Batteries that sit idle suffer from damaging sulfation buildup (lead sulfate deposits on the battery plates). This buildup is the main cause of battery problems and failure. The Pro-12 uses our scientifically-proven ReNew-IT Pulse Technology to keep these deposits off the plates. By removing these energy-dampening deposits, your batteries are stronger than ever. This means your “shelf-life” warranty issues and other battery-related expenses are reduced dramatically.

P/N 11-07122 $169.95

**AIRCRAFT SPRUCE WEST**

CORONA, CA • (877) 4-SPRUCE

**AIRCRAFT SPRUCE EAST**

PEACHTREE CITY, GA • (877) 477-7823

Prices Subject to Change Without Notice