## Lineup of the ACTIVE PULSAR product

### Compatible products

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Correspondence</th>
<th>Model number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORK 48V</td>
<td>Electric forklift</td>
<td>AP-F48V / AP-F72V</td>
</tr>
<tr>
<td>Cart 48V</td>
<td>Electric cart, turret truck</td>
<td>AP-C48V / AP-C72V</td>
</tr>
<tr>
<td>36V</td>
<td>Floor washing machine</td>
<td>AP-36V / AP-TP36V</td>
</tr>
<tr>
<td>Full Size 24V</td>
<td>Bus, truck, special vehicle etc.</td>
<td>AP-D24V / AP-S24V</td>
</tr>
<tr>
<td>12V</td>
<td>Car, taxi, motorcycle etc.</td>
<td>AP-D12V / AP-S12V</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive frequency</td>
<td>Automatic, variable intermittent operation</td>
</tr>
<tr>
<td>Use temperature</td>
<td>-30℃~+65℃</td>
</tr>
<tr>
<td>Current consumption</td>
<td>Up to 20mA, (when equipped: Less than 5mA)</td>
</tr>
<tr>
<td>Cord length</td>
<td>About 30m</td>
</tr>
<tr>
<td>Body dimensions</td>
<td>115x68x195.5mm</td>
</tr>
<tr>
<td>Mass</td>
<td>150g</td>
</tr>
</tbody>
</table>

Earth-friendly technology
Battery will deteriorate over time and will prevent from demonstrating its original ability.

When crystallization of lead sulfate begins...
- Lead sulfate attaches to an electrode plate, and surface area decreases
  - Sufficient charge cannot be performed.
- It becomes difficult to let electricity pass (increase of the internal resistance) and exhausts useless electric power.
- Mileage aggravation, the damage of the electrode plate due to the heat.
- In order to change to lead sulfate, battery fluid (dilute sulphuric acid) is reduced.
- Electrode plate becomes exposed and becomes the fatal deterioration.
- Since water is generated simultaneously, battery liquid (dilute sulphuric acid) thins.

ACTIVE PULSAR, an effect is realizable immediately.
Attached ACTIVE PULSAR in a car battery and photographed at the time of attaching, and four days later.

<table>
<thead>
<tr>
<th>Before attaching</th>
<th>after four days of attaching ACTIVE PULSAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead sulfate crystals are adhesion state</td>
<td>Lead sulfate crystals disappearance</td>
</tr>
</tbody>
</table>

The effect appears immediately, and a crystal of lead sulfate

- Lead sulfate is broken down by charge, but it will not restore when it crystallizes by excessive electric discharge, or left for a long time etc., and it cannot be charged.

ACTIVE PULSAR raises resolution speed of lead sulfate which crystallized by letting a special pulse electric current make resonance.

In attaching ACTIVE PULSAR
- Crystallization of the lead sulfate of an electrode plate is decomposed and sufficient charge is possible.
- Reduce internal resistance; mileage improvement, energy saving = Prevent damage to the electrode plate due to heat.
- Prevent dilution, a decrease in a battery fluid; life extension = Prevent exposing of electrode plate

ACTIVE PULSAR recovers the performance and prolong life of a battery!

It shows a performance superior to other brands
- Overwhelming speed
  Fast anyway! Overwhelming sulfation removal speed. About 1 week only now! For things a certain period of time was needed until effect is able to confirm.

  Sulflation dissolution speed (Comparison at the time of setting E-company to 1)
  - Super Turbo
  - Turbo
  - Normal
  - Eco
  - Stop

- Low power consumption
  It shows that movement and stop electricity are predominantly superior to other companies like the chart below. It means that the electric power of operation is low has so small consumption and generation of heat of a battery.

  Power consumption (Comparison at the time of setting E-company to 1)
  - Super Turbo
  - Turbo
  - Normal
  - Eco
  - Stop

Pulse control
The other brands work in 2 choices of movement or the stop, but ACTIVE PULSAR works with four modes according to an accumulation of electricity rate.
In the case of ACTIVE PULSAR, because the system is such that hold down the number of the pulses(power consumption) with the decrease in accumulation of electricity rate, the decrease of the accumulation of electricity rate is gentle and continues working more than 5-10 times in comparison with other brands when not charging it for a long term.