Remote System
User's Guide
(Former NIHON BALLUFF co., Ltd.)
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Remote power supply system
30W Power Supply only type / Charging type
Base part : RVE-210-2-PU-___
Remote part : RVT-210-102-PU-___ (Power Supply only type)
RVT-210-502-PU-___ (Charging type, Lead battery exclusive use)

Attention for Installation
(Read this section thoroughly before installation.)

Before using the Remote Sensor, read this manual carefully.
During installation and operation, pay close attention to the safety aspect.

- Ensure the power is switched off during installation or maintenance operations.
- Use a regulated power supply, e.g. switch-model type. Simpler power supplies, such as a full-wave rectification type, will cause the permissible ripple rating to be exceeded and may cause malfunction.
- Ensure correct connections by reference to the wiring diagram.
- To avoid malfunction caused by induction noise, cable should be kept apart from motor or other power cable.
- When the resin (ABS or AB + PB) is used to the case or the transmission surface, please be sure to avoid organic solvent or liquid containing them to splash over.
- Please install cable end "wiring part" so that there is no water and cutting fluid.(Water is transmitted to the internal from the cable core, there is a possibility of causing a problem such as short circuit or corrosion.)
- Please do not face the output sensor to a metal at all times to avoid metal overheating or damage of the components.

Remote part : Power Supply only type
RVT-210-102-PU-___
Remote part : Charging type  (Lead battery exclusive use)
RVT-210-502-PU-___

Specification of the System

<table>
<thead>
<tr>
<th>Type code</th>
<th>RVT-210-102-PU-___</th>
<th>RVT-210-502-PU-___</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type code</td>
<td>RVT-210-2-PU-___</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>24V DC ± 10%</td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>2.5A</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>14.4V CV control</td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>1.5A</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>12V CV control</td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>2.0A</td>
<td></td>
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<tr>
<td>Voltage</td>
<td>10V CV control</td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>2.5A</td>
<td></td>
</tr>
</tbody>
</table>

Installation notes
In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Tightening torque ⇒ 0.63N·m

LED indication

<table>
<thead>
<tr>
<th>Status</th>
<th>Color</th>
<th>LED</th>
<th>Status</th>
<th>Color</th>
<th>LED</th>
<th>Status</th>
<th>Color</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power LED</td>
<td>green</td>
<td>OFF</td>
<td>Power supply supply</td>
<td>green</td>
<td>ON</td>
<td>Power supply supply</td>
<td>green</td>
<td>ON</td>
</tr>
<tr>
<td>Overheating</td>
<td>yellow</td>
<td>OFF</td>
<td>Overheating</td>
<td>yellow</td>
<td>ON</td>
<td>Overheating</td>
<td>yellow</td>
<td>ON</td>
</tr>
<tr>
<td>Battery low</td>
<td>red</td>
<td>OFF</td>
<td>Battery low</td>
<td>red</td>
<td>ON</td>
<td>Battery low</td>
<td>red</td>
<td>ON</td>
</tr>
</tbody>
</table>

Charging Characteristics

PE12V2 (manufactured by GS Yuasa) after a 50% discharge, evaluate the charging characteristics of a combination of RVE-210-2-PU / RVT-210-102-PU / RVT-210-502-PU operation at 4 Step 3 stage lead battery profile.

Notes

In the over-discharge state (about 10V or less battery voltage), to limit the charging current to about 130mA.
Usually return to the charging cycle when it exceeds approximately 10V.
- Voltage restart the charge from the float charge is about 130mA.
- A base part and a metal, or there is a possibility of damage to the internal elements.

Typical Transmitting Diagram (Supply voltage at 24V /non-flush mount)

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