Station Energy Saving Inverter (S-EIV)*

Effectively utilize trains’ regenerative energy. Energy savings for entire station buildings.

Main Features

1. When power generated by trains during braking cannot be fully used by other trains, S-EIV supplies the surplus power to electrical equipment in station buildings for significant energy savings.

2. Dust-proof, rust-resistant and virtually maintenance-free, monitoring and control functions ensure reliable operation.

*S-EIV* is a registered trademark of Mitsubishi Electric Corporation.
**Product Features**

1. **Compact enough to install at the end of a station platform**
   
   Power equipment can be carried through a door with the minimum size of H2000mm x W1200mm. This enables the equipment installed not only at the end of platform, but also in a small space in the electric room.

2. **Advanced power electronics technology**
   
   S/C power module ensures low power loss. Use of a high-frequency linked system contributes to reduced size.

3. **Grid interconnection technology**
   
   Stable high quality electric power are ensured by grid interconnection technology developed from power conditioners for solar power. S-EIV features reactive power control to stabilize output voltage.

4. **Minimal maintenance**
   
   The use of durable components and adoption of a fanless natural air-cooled design ensures minimal maintenance even when installed outdoors.

**Power Equipment Specifications**

- **Rated Capacity**: 200kW-30 seconds in every 3 minutes
- **Input Voltage**: DC 500V, DC 750V, DC800V
- **Output Voltage**: 210V, 410V, 410V to 3 phases
- **Main Circuit System**: High-frequency link system
- **Cooling System**: Natural air-cooling

**Control Panel Specifications**

- **Configuration**: Touch-panel style operating display
- **Control Functions**: On/Off, operating mode selection, Control settings
- **Display Functions**: Operating status and fault display, measurements
- **Measurement and Recording Functions**: Input/output voltage, current, energy
- **Access Functions**: Contact interface/without communication network/public telephone network
- **Size and Weight**: W400mm x D2000mm x H500mm, 28kg

**Performance at Myoden Station**

Tozai Line, Tokyo Metro Subway system

Energy saving effects of 600kWh per day (equals to power consumption of 60 households) was verified

<table>
<thead>
<tr>
<th>Measurement Period (month)</th>
<th>Transition in Power Saving (kWh/day)</th>
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<tbody>
<tr>
<td>2014</td>
<td>0 1 2 3 4 5 6 7 8 9 10 11 12 13</td>
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