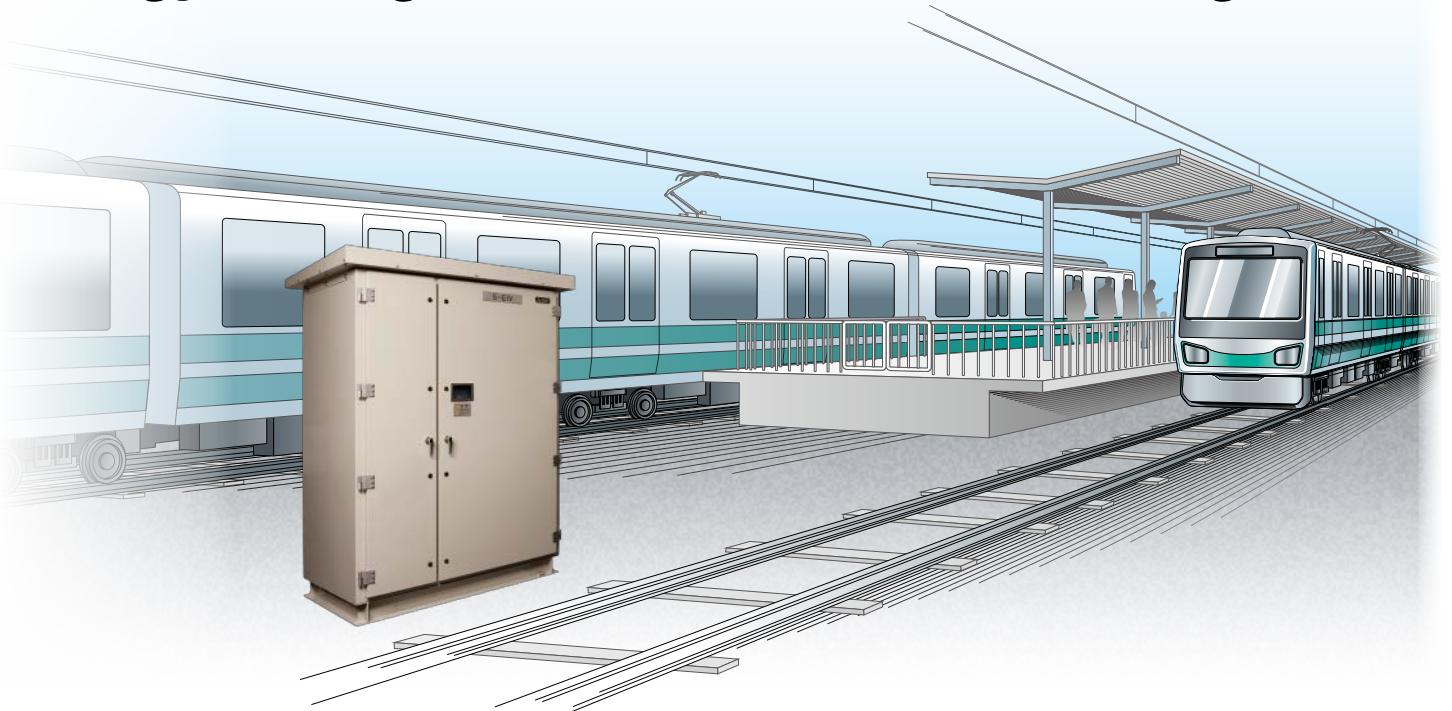




# Station Energy Saving Inverter (S-EIV)\*

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

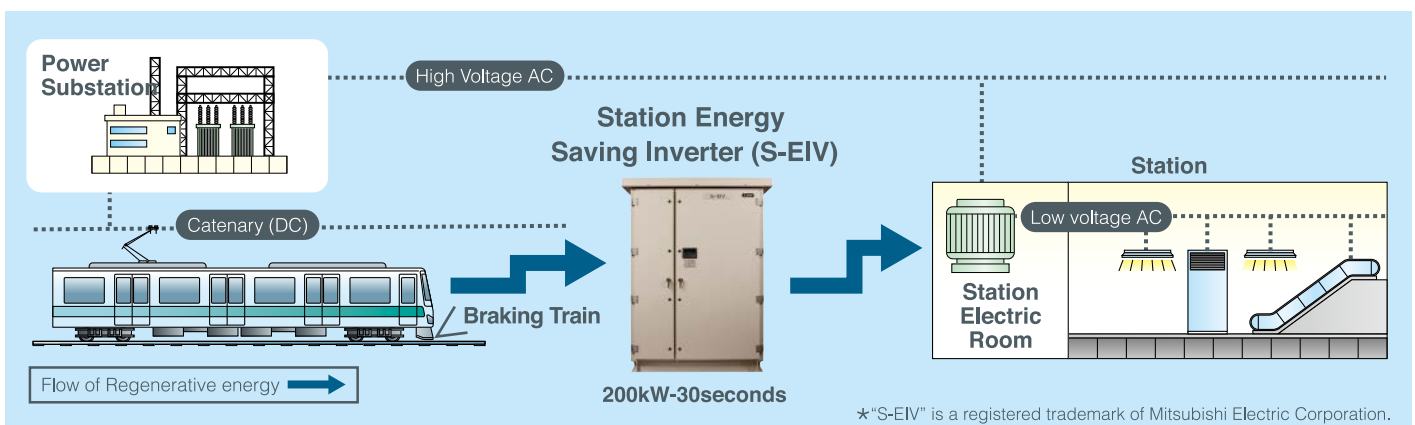


## Main Features

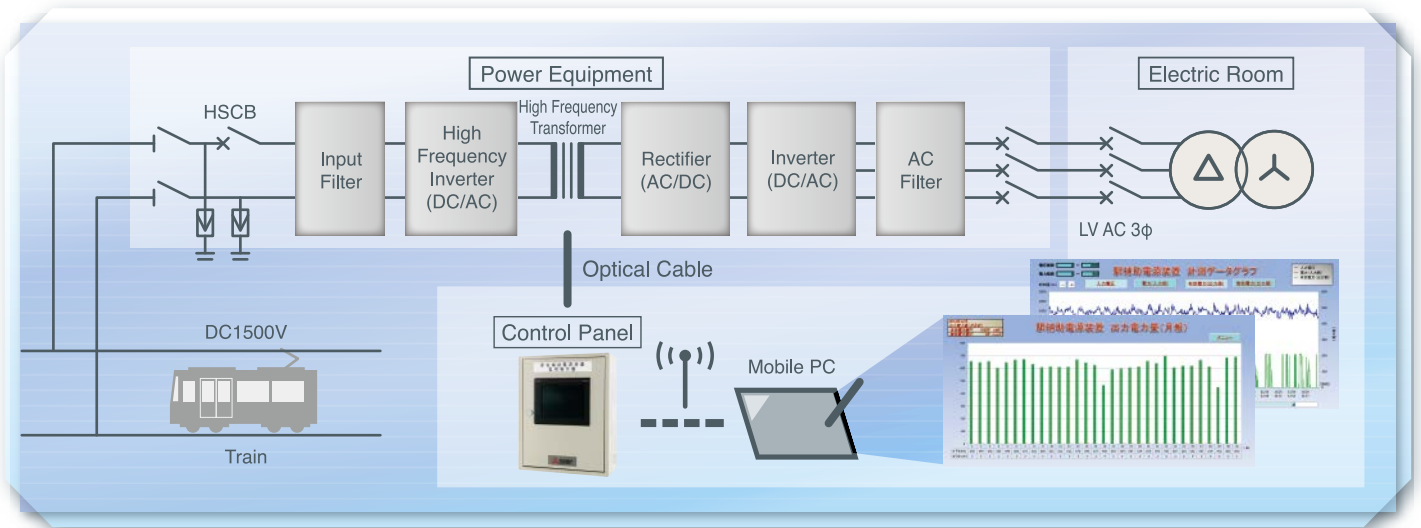
- 1** When power generated by trains during braking cannot be fully used by other trains, S-EIV supplies the surplus power to electrical equipment in station buildings for significant energy savings.

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



# Station Energy Saving Inverter (S-EIV)



## 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.

#### Size and Weight Cubicle design housing with all necessary equipment

- Size and Weight of Power Equipment :  
W1680mm x D1169mm x H2180mm 2000kg  
Roof (100mm) and Base (130mm) can be removed during transportation  
No roof for Indoor type

### 2 Advanced power electronics technology

SiC 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 ensure minimal maintenance even when installed outdoors.

#### Power Equipment Specifications

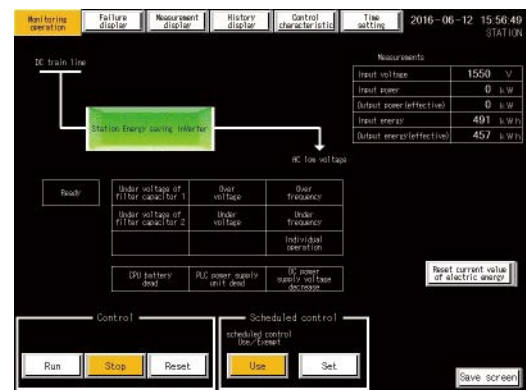
Rated Capacity	200kW-30 seconds in every 3 minutes
Input Voltage	DC1500V, DC750V, DC600V
Output Voltage	210V/400V AC 50/60Hz 3 phases
Main Circuit System	High-frequency link system DC/DC converter and SiC power module inverter
Cooling System	Natural air-cooling

#### 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
Warning Functions	Contact interface/wireless communication network/public telephone network
Size and Weight	W400mm x D200mm x H500mm, 28kg

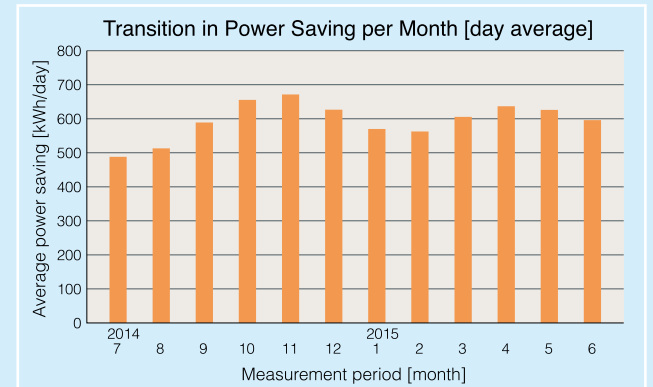
### 5 Monitoring of operating status via control panel

All necessary functions for operation and monitoring are installed.  
- Operation/Status monitoring/Measurement, recording and display of the trend data/Interface with upstream equipment.



### 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



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Specifications are subject to change without notice.

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