Advantages of Packaged Power Station

- Best Performance and On Time Delivery
- Economical Satisfaction
- High Quality and Reliability
- Easy, Cost Effective Operation & Maintenance

## Technical Specification

<table>
<thead>
<tr>
<th>Item</th>
<th>Standard</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>Diesel Oil, Heavy Fuel Oil up to CIMAC H700</td>
<td></td>
</tr>
<tr>
<td>Lube Oil</td>
<td>SAE 40</td>
<td></td>
</tr>
<tr>
<td>Starting Method</td>
<td>Air Starting</td>
<td>Electric Starting (H17/28)</td>
</tr>
<tr>
<td>Generation Voltage</td>
<td>6.6 kV</td>
<td>Up to 13.8 kV</td>
</tr>
<tr>
<td>Circuit Breaker</td>
<td>VCB or ABB</td>
<td></td>
</tr>
<tr>
<td>Enclosure</td>
<td>Weather Resistant</td>
<td>NEMA at greater distance</td>
</tr>
</tbody>
</table>

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**Puerto-Prinçipe 34 MW PPS in Haiti**
(HYUNDAI - HiMSEN 9H21/32 x 20 Sets)

**BioBio 13.6 MW PPS in Chile**
(HYUNDAI - HiMSEN 9H21/32 x 8 Sets)

**Namibia 10 MW PPS in Namibia**
(HYUNDAI - HiMSEN 9H21/32 x 6 Sets)

**Masaya 61 MW PPS in Nicaragua**
(HYUNDAI - HiMSEN 9H21/32 x 36 Sets)

**Santa Elena 90 MW PPS in Ecuador**
(HYUNDAI - HiMSEN 9H21/32 x 53 Sets)

**J-Project 5.6 MW PPS in Japan**
(HYUNDAI - HiMSEN 9H21/32 x 4 Sets)
The Engine & Machinery Division of Hyundai Heavy Industries Co., Ltd. is one of the leading diesel engine manufacturers in the world. Hyundai takes great pride in being rated annually as the world’s top diesel engine manufacturer since 1978.

Since it first successfully completed a 20 MW class diesel power plant in Jeju island, Korea, Hyundai has expanded its activities and filled a key role in the global power market through completing diesel power plants of high quality around the world as an EPC contractor.

Utilizing its vast experience acquired in constructing stationary power plants, Hyundai has developed a new generation of power system, there being high demand for newer technology with the conventional power system technology insufficient to meet current power clients’ needs.

Hyundai has developed a new engine and an efficiently packaged power generating system using it of high functionality. Innovation is a hallmark of the world’s top engine manufacturer, an expert in the design and construction of power plants.

The Packaged Power Station, a result of Hyundai’s creative and technological progress, will bring contentment to previously unsatisfied power customers.

### Engine Layout

- **Engine Model**:
  - 9H21/32

- **Engine Specifications**:
  - Rated Output: 1,800 kW
  - Speed: 1,000 rpm
  - Fuel: Natural Gas

### General Specification

- **Engine Model**:
  - 5H17/24G

- **Engine Specifications**:
  - Rated Output: 690 kW
  - Speed: 1,000 rpm
  - Fuel: Diesel Oil

### System Comparison

- **Engine Model**:
  - 5H17/24G

- **Engine Specifications**:
  - Rated Output: 690 kW
  - Speed: 1,000 rpm
  - Fuel: Diesel Oil

### Features
- Base load operation
- Diesel oil / Heavy fuel oil / Natural gas use
- 40 ft container size
- Easy transportation
- Earth-friendly
- Low cost of operation and maintenance

### Application
- Captive power
- Isolated area
- Pumping station
- Independent power producer

### Engine Particulars

- **SFOC**:
  - Without engine driven pumps

### Description

- **Hyundai System**
  - Engine Speed: 900~1,000 rpm
  - Fuel: Heavy fuel oil / Diesel
  - Availability: More than 85%
  - Maintenance: Simple & Easy Done at Site
  - Fuel Consumption: 189 g/kWh
  - Life Time: More than 20 Years

- **Conventional**
  - Engine Speed: 1,500~1,800 rpm
  - Fuel: Heavy fuel oil / Diesel
  - Availability: Less than 50%
  - Maintenance: Complicated
  - Fuel Consumption: About 215 g/kWh
  - Life Time: Less than 10 Years

### Notes
- SFOC: Specific Fuel Oil Consumption
- MCR: Maximum Continuous Rating
- ISO: International Organization for Standardization