2. Engine Overview **03 ENGINES**

MAKING YOUR POWER PLANT WITH THE LATEST TECHNOLOGY

HYUNDAI DF Engine, H54DFV

Two-Stage T/C System

High efficiency and no derating even for sites with high ambient temperature and altitude

Extreme miller cycle, Two-stage T/C

- · Advanced IVC
- · Effective compression ratio
- · Higher Engine efficiency
- · Decreased NOx emission

General Info

EFFICIENCY_TSTC

51.2%

EFFICIENCY _SSTC

50.2%

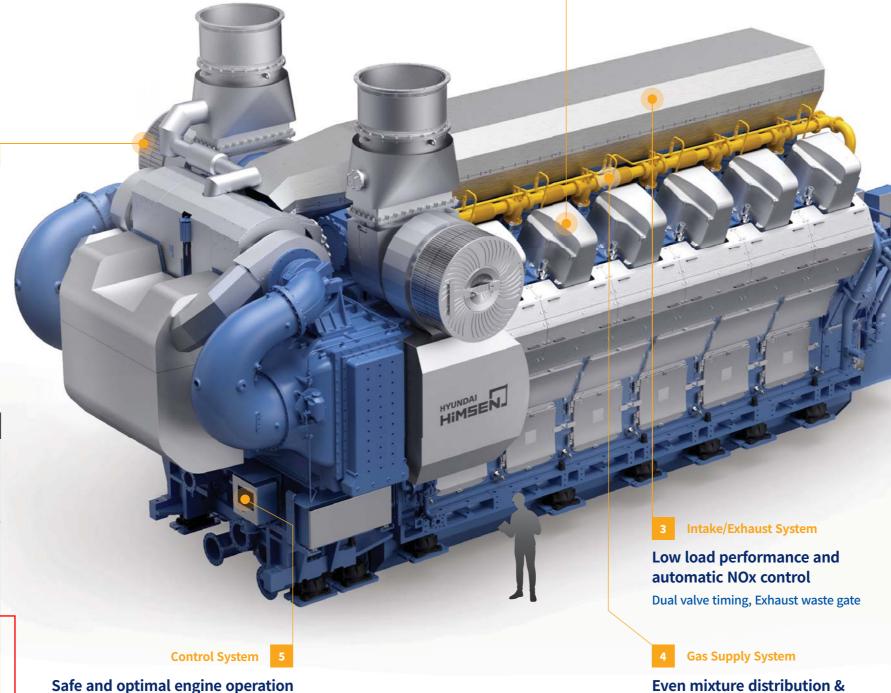
HI-MECS, Cylinder balancing,

Knock control

OUTPUT RANGE

17.6~26.5_{MWm}

* TSTC: Two Stage Turbo Charge SSTC: Single Stage Turbo Charger



BENEFITS FOR YOU

Combustion System

High power and efficiency

· Output / Cylinder: 1470kWm

combined simulation

· Engine Cycle: 4-stroke

· Engine Speed: 600rpm

· Bore: 540/600mm

Low knocking

Gas mixer optimization, Port flow CFD

MP/Main injector, Piston bowl, Gas/Diesel

· Steady Performance

One of the major important factors of an engine is its consistancy in performance. HiMSEN engine's professional engineering can assure stable power output even after the years.

· Easy Maintenance

HYUNDAI engines are thoughtfully modularized for easy maintenance. Many O&M managers working on HYUNDAI's power plant comment that the intuitive and stable engine design makes the site easier to be operated. Also, the pipeless design can prevent deformations.

Eco-friendly

HiMSEN engines have been designed with the environmental issues in mind. HYUNDAI always looks for various ways to protect the environment. Low NOx emissions / Smokeless at whole operation range / Low vibration & noise.

· High Efficiency



^{*} Specifications are subject to change without prior notice.

HIMSEN