

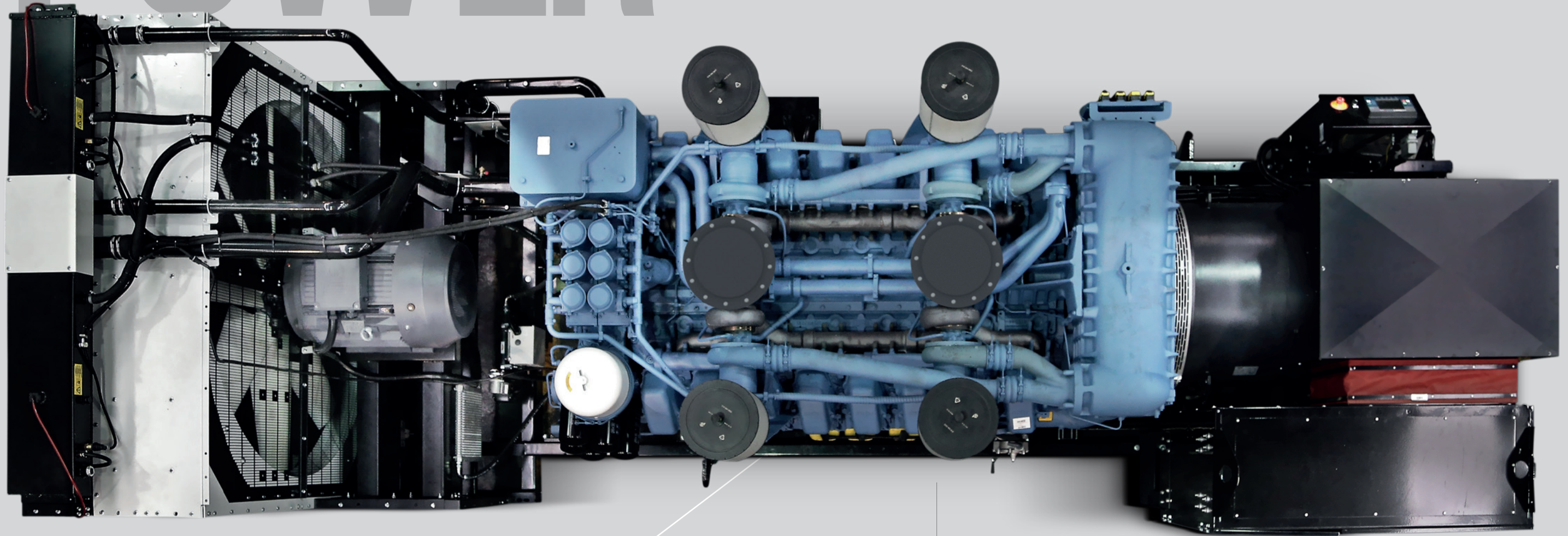
DATA CENTRE

RELIABILITY &
EFFECTIVE POWER



HIMOINSA

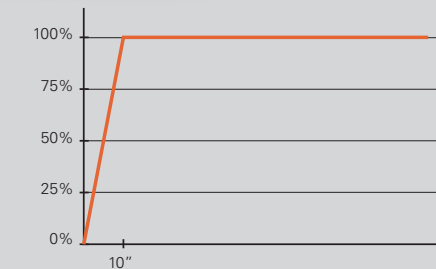
HIGH POWER



1 SECURITY
The basic principle of any Data Centre is to ensure the security of the data stored in it. HIMOINSA generator sets used for these projects may incorporate a redundant starter system: electric + hydraulic or electric + pneumatic. Engine start-up is thus 100% guaranteed.

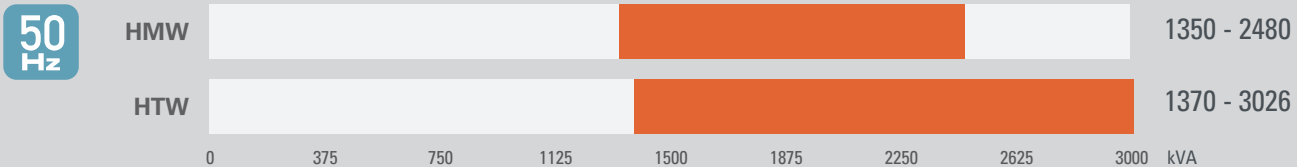
2 OPEX
VARIABLE-SPEED RADIATOR. Automatic radiator regulation according to engine temperature ensures lower fuel consumption and reduces noise. Automatic radiator regulation is included as an option.

3 SPEED
With integrated pre-heating resistance with a pump, engine water is kept at a temperature of at least 40°C, which enables the generator sets to start 10 seconds after any power outage, ensuring a totally secure uninterrupted power supply for data centres.



ENGINE STARTING CURVE. 10 SECONDS AFTER A POWER OUTAGE, THE ENGINE STARTS AT 100% CAPACITY.

10s
100% ENGINE
LOAD
CAPACITY



HIMOINSA projects around the world

ALIBABA GROUP
 24 MW of HIMOINSA power for the data centre of the largest online sales group in Asia-Pacific.

The aim: to prevent any loss of data and/or functionality of the databases that power the group's online sales portals.

OVERVIEW OF THE PROJECT

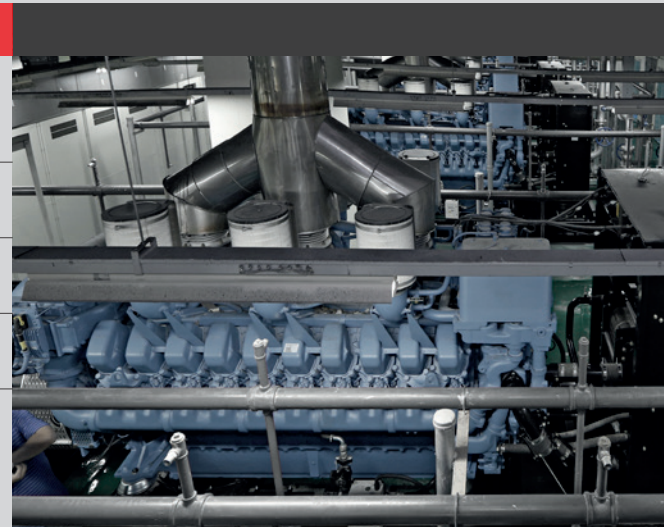
LOCATION:
 GDS Shanghai Waigaoqia.
 Alibaba Group Data Centre (Phase II)

POWER REQUIRED:
 11 x 2000 kw = 22 MW

POWER INSTALLED:
 12 x 2000 kw = 24 MW

GENERATOR SETS:
 12 HMW-2555 T5 units

SPECIAL CONFIGURATION:
 Remote cooling system: intercooler, remote radiator and fuel cooler.



OTHER REFERENCES IN ASIA

- INDONESIA: more than 6000 units sold
- CHINA: the biggest market in APAC

SHANGHAI 9x2420: 22 MW

- Horizontal radiators
- 9 x HMW-3030 T5

HANGZHOU 2x1834: 4 MW

- 2 x HTW-2295 T5

JINQUIAO 1834+2778: 5 MW

- 1 x HTW-2295 T5
- 2 x HTW-1745 T5

ZHEJIANG 1x1834: 2 MW

- 1 x HTW-2295 T5

FIRST CERTIFIED TIER IV DATA CENTER IN LATIN AMERICA (ECUADOR)

- 24 generator sets.
 Work in parallel with load share | 24x730: 18 MW

GUAYAQUIL

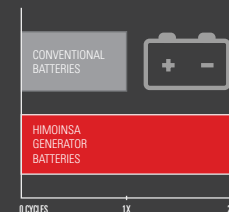
TELCONET CLOUD CENTER I

- 12 x HMW-810 T6
- 400 racks
- TIER IV.

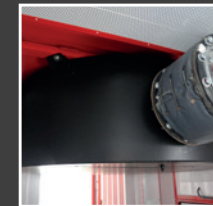
QUITO

TELCONET CLOUD CENTER II

- 12 x HMW-810 T6
- 360 racks
- TIER III.



The batteries used in HIMOINSA generator sets are ready to withstand multiple charge/discharge cycles, increasing their service life. Even at high temperatures, these batteries can last for up to twice as long as conventional batteries.



HIMOINSA incorporates an internal silencer to optimise the size of the container and to minimise transport and installation costs and times. This exhaust system is included in all containers as standard.



Containers painted by means of an exhaustive four-step process that includes washing and passivation pretreatment and surface application of a liquid with three separate components. This guarantees a final thickness of 250 microns and grade C5-M (Medium) corrosion resistance, according to standard ISO 12944.



HIMOINSA brings added value to the Data Centre sector with its Engineering Solutions, a concept that defines the company's work and consists of designing and adapting all products to each project, based on extensive technical know-how to tailor equipment to the customer's unique specifications.

- 1 High-performance batteries
- 2 Easy to install and transport
- 3 Highly corrosion-resistant and durable paintwork
- 4 Engineering solutions

UptimeInstitute

HIMOINSA MANUFACTURES GENERATOR SETS THAT COMPLY WITH MARKET STANDARDS AND THE HIGHEST RATINGS ESTABLISHED BY THE GUIDELINES OF THE UPTIME INSTITUTE, A GLOBALLY RECOGNISED ORGANISATION THAT CREATES AND ADMINISTERS TIER CERTIFICATIONS FOR THE DESIGN, CONSTRUCTION AND OPERATIONAL SUSTAINABILITY OF DATA CENTRES.

