

HIMOINSA® POWER PLANT



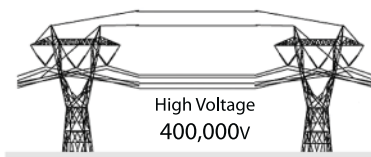
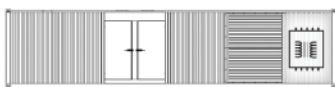
continuous power supply in medium voltage



POWER PLANT

It is a self-sufficient module. It can supply as stand –alone source or to be synchronized with other modules or with the utility. in case we supply a production plant we will need further modules for energy distribution upon request , this may change due to generator number and/or customer requirements.

A.C. Generator and
Step-up transformer



Step-down
transformer



**50
Hz**

GENSET

VERSION

FREQUENCY

POWER PRP (1)

POWER COP (1)

VOLTAGE (2)

HTW 1745 T5 powered by
mitsubishi

40' HC CONTAINER

Hz/RPM

50 / 1500

kVA/kW

1744 / 1395

kVA/kW

1560 / 1248

kV

15kV

**60
Hz**

HTW 1545 T6

40' HC CONTAINER

60 / 1800

1928 / 1542

1572 / 1258

13,2kV

Rating according to ISO 8528-1: +25°C, 100 mASL, 30% relative humidity.

(1): Power losses according to DIN ISO 3046: Starting from 100m, 1% lost with each 100m increment. Starting from 40°C (77°F), 4% power lost with each 10°C (50°F) increment.

(2): Further Voltage ratings are available under request: 3,3kV | 5kV | 4,16kV | 7,6kV | 11,4kV | 13,2kV | 11kV | 20kV.

(3): Genset datas at 60Hz rating must be confirmed under request.

(4): Further Voltage ratings are available under request: 4,16kV | 7,6kV | 11,4kV | 13,8kV.



Medium Voltage

- First class brand MV components.
- A common bus bars measure cell is provided in order to synchronize the Genset with an external source without adding any component.
- Barriers and protection in order to prevent electrical risks.
- Side door (interlocked) for transformer maintenance.
- Multiple MV cable outlet.



Operating Modes

- Main Back-up
- Main Back-up with no break at return
- Pick Shaving with main
- Base-Load with main
- Base-Load with Genset
- Test with load and without load
- Driven manual

Devices

- Woodward EasyGen 3200 controller, local SCADA system with 7" Touch Screen
- Easy and intuitive user interface for selection of operating modes and operation of the plant
- Available expansions with multi-Genset systems, distribution systems, centralized control systems, remote supervision systems over Ethernet, Modbus, TCP / IP, GPRS, GPS
- Power output of 125A 3P + N for field services
- Large window that allows viewing Genset parameters with closed doors
- Aux cables outlet at top and bottom



Engine

- Mitsubishi Heavy Industries S16R-PTA
- 4 stroke, direct injection, turbocharged with after cooler, 16 cylinders 'V' disposal liquid cooled, bore 170 mm, stroke 180 mm, capacity 65.37 liters, compression ratio 14: 1, BMEP 16.6 bar, nominal net continuous power (COP) as per ISO 3046: 1330 kWm at 1500 RPM, 10% overload available for 1 Hour Every 12 Hours of Operation, Vertical core radiator for 40 ° C, diesel fuel
- Water preheating
- Automatic oil filling (400lt tank) with drain pump
- fuel Pre-Filters with water separation
- External automatic fuel filling with fast connections
- Alternator
- STAMFORD P 734 E
- Brushless, PMG, CI H, IP 23, 400V 50Hz, Rating 1900kVA, PF 0.8, Pitch 2 / 3, AVR 321 MX
- Windings temperature sensors
- Anticondensation heater
- Silencer
- Residential class high-performance 35dB (A)
- Fitting into the container
- Removable exhaust outlet
- Double heat insulation to prevent over-heat in the container

Safety:

- External emergency stop and emergency fuel valve
- Emergency door on both sides
- External visual and audible alarm
- Remote alarm fire detection
- Fire extinguishers



Maintenance

- Full access to engine and alternator
- Lighting system and auxiliaries outlets 230Vac
- Easy radiator cleaning and inspection
- Removable auxiliary tank for inspection
- Engine oil and water preheating systems with valves
- Lockable doors in open position during Genset running

