

14 Nos. MTU Used DieselGenerator Sets Low Hours (20.8 MW)

General Data

- Power Park consisting of 14 pcs Generator Sets, 14 pcs Transformers, 3 Diesel Tanks and Auxiliary Equipment.
- **Total Power:**
Continuous Operation: 18,9 MW (COP)
Prime Power Operation 20,8 MW
- **Standard Voltage Output:** 11 kV / 50 Hz without Transformer (generator output)
- **Alternative Voltage Output:** 15-16-17 kV or 20-21-22 kV provided by step up transformer
- **Mode of Operation:** Stand Alone Operation (Island Mode) / Parallel to the Grid Operation (base load – fixed power) / Load Sharing Operation / Standby AMF Operation

Generator Sets Description (14 GenSets)

- **GenSet Nominal Power (each):**
Continuous Power COP: 1350 kWe – 1685 kVA (pf 0,8)
Prime Power PRP: 1385 kWe – 1855 kVA (pf 0,8)
StandBy Power: 1630 kWe – 2040 kVA (pf 0,8)
- **Diesel Engine Specs:**
MTU 16V, 16 Cylinder in V configuration, 1500 rpm , Diesel Fuel Oil
Engine Operating Hours: approx. 3.500 hours each GenSet
- **Alternator Specs:**
Leroy Sommer / Stamford Alternator, 3phase 11 kV - 50 Hz output,
automatic voltage regulation, power factor 0.8, resistance grounding
- Control Panel suitable for Stand alone / parallel to the grid / load sharing / standby AMF operation, mounted inside GenSet Container
- Generator Medium Voltage Circuit Breaker (11 kV), ABB made
- Nominal Operating Conditions: 40° C ambient temperature – 1000 m altitude
- GenSet Dimension (L x W x H): 12,5 x 2,5 x 3,0 m, Weight 30 tons, 40” High Cube Sound Proofed Container suitable for outdoor installation

Cast Design Transformers Package Description (14 Transformers)

- Transformer Nominal Power (each): 2200 kVA , Ynd11
- Transformer Canopy Dimensions (L x W x H) : 6,0 x 2,5 x 2,5 (20” container), weight 10 tons, enclosed in sound proofed canopy
- Primary Voltage: 11 kV – Delta Connection – 50 Hz
- Secondary Voltage: Selectable with off load tap changer 15 - 16 - 17 kV or 20 - 21 - 22 kV , Star Connection – 50 Hz
- Transformer MV Circuit Breaker: 24 kV-630 A MV
- Transformers are interconnected with GenSets using MV quick coupling plugs (provided)

Accessories

- Three Rectangular Fuel Tanks of capacity 7 m³ each. Each Fuel Tank is capable to supply 7 GenSets (in/out connection 1")
- Flexible Hoses for fuel supply / return (1") for all GenSets.
- Two Medium Voltage Interconnection Bus Bars Cubicles for grouping Generating Sets.
- N2XSY 1 x 50 Medium Voltage Cables (11 kV and 20 kV) for all GenSets (various lengths)
- 2 x 20" Container for Operators

Others

- Worldwide delivery
- Installation and start-up
- Training
- After Sales Service
- Total running hours: 3.500 operating hours or less
- Engine and alternator are original, not rebuild. Maintenance has been done according to instruction (manual)
- Name of manufacturer: 14 x MTU / Germany engines;
7 x Leroy Somer alternators and
7 x Stamford alternators
- Origin: Germany
- YOM :2008
- Status: fully operational, currently dismantled
- Location: Europe