

14. Silent type generator, designed as containerized type with most firm and strong material enclosure, polyester powder covers the enclosure that keeps the generator neither fading nor change more than 10 years, anti-corrosion.

15. English operation/maintenance manuals, test report and wiring diagram

DIESEL ENGINE: KOFO N4105ZDS 50HZ/1500RPM

4 stroke-cycle, 4 cylinders vertical in-line, Turbocharged

ENGINE SPECIFICATIONS & TECHNICAL DATA

Rated/Standby power	KVA	70/78
Bore	mm	105
Stroke	mm	120
Displacement	L	4,15
Lubricating oil capacity	L	15
Aspiration Type		Turbocharged
Combustion		Direct injection
Speed Governor		Mechanical
Compression Rate		19:01

FUEL CONSUMPTION

Fuel consumption load 100%	g/Kw.h	227
Fuel consumption load 100%	L/H	12,8

ENGINE STANDARD EQUIPMENT

- ◆ Turbocharged aspiration
- ◆ Structure steel base
- ◆ Crankcase breather
- ◆ Battery charging alternator
- ◆ Lubricating oil cooler
- ◆ Fuel filters, full flow paper element
- ◆ Fuel transfer pump, gear driven, plunger type
- ◆ MECH type governor
- ◆ Lubricating oil filter, full flow paper element
- ◆ Lubricating oil pump, gear driven
- ◆ Exhaust dry manifold
- ◆ 50°C ambient radiator
- ◆ Blower fan, fan drive
- ◆ 24V DC electric starting motor

ALTERNATOR: SZN224D 50HZ/400/230V/3PHASE

Standby Output: **55KVA**
 Rated Output: **50KVA**

Standards

Meet the requirements of BS EN 60034 and the relevant section of other international standards such as BS5000, VDE0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359. Other standards and certifications can be considered on request.

Technical data

Insulation System	H
Protection Grade	IP23
Rated Power Factor	0,8
Voltage Regulation	± 1.0 %
Stator Winding	Double Layer Concentric
Winding Pitch	Two Thirds
Winding Leads	12
Connecting Type	3 Phase and 4 Wires, "Y" type connecting
Altitude	≤1000m
Exciter Type	Brushless, self-exciting
Telephone Influence Factor (TIF)	<50

THF	<2%
Voltage Regulation, Steady State	≤±1%
Alternator Efficiencies	92,30%

GENERATING SET DATA

Voltage Regulation	≥±5%
Voltage Regulation, Stead State	≤±1%
Sudden Voltage Warp (100% Sudden Reduce)	≤+25%
Sudden Voltage Warp (Sudden Increase)	≤-20%
Voltage Stable Time (100% Sudden Reduce)	≤6S
Voltage Stable Time (Sudden Increase)	≤6S
Frequency Regulation, Stead State	≤5%
Frequency Waving	≤1%
Sudden Frequency Warp (100% Sudden Reduce)	≤+12%
Sudden Frequency Warp (Sudden Increase)	≤-10%
Frequency Recovery Time(100% Sudden Reduce)	≤5S
Frequency Recovery Time (Sudden Increase)	≤5S

DATAKOM DKG 309/300 GENERATOR CONTROL MODULE FROM Turkey

Type & Design

DATAKOM DKG 309/300 is a comprehensive AMF unit for single genset standby or dual genset mutual standby operations indicating the operational status and fault conditions; automatically shutting down the engine and indicating the engine failure by means of LCD display.

Controls & Monitoring

- ◆ Mode selection & start engine button with interlock key switch system
- ◆ Menu navigation button
- ◆ LCD display for: AC amperage-each phase and earth current, AC voltage-each phase and neutral, Frequency Hz, Operation hours run, Lub, Oil pressure, Cooling water temperature, Generator load kW/Kva, Generator Load kW/Kva
- ◆ Emergency stop pushbutton
- ◆ AMF function

Safety Shutdown Protection and LED indicators

High engine temperature, Low oil pressure, Fail to start, Generator over speed / Frequency, Generator under speed / Frequency

Generator high voltage, Generator low voltage, Oil pressure sender circuit, Loss of Speed signal, Emergency stop

Mounting

Fabricated cubicle mounted on individual bracket with anti-vibration isolator

Electrical Design

In accordance with BS EN 60950 low voltage directive, BS EN 61006-2 and 61006-4 EMC directive. The optional interface can provide real time diagnostic facilities.



Control module DKG 309/300

- ◆ Start/stop engine optional
- ◆ Remote start
- ◆ Low oil pressure (shutdown)
- ◆ High water temp. (shutdown)
- ◆ Charge failure (shutdown)
- ◆ Over speed (shutdown)
- ◆ Over voltage (shutdown)



- ◆ Over frequency (shutdown)
- ◆ Low water level (shutdown)

GENSET'S WARRANTY

For prime using models are warranted in accordance with our warranty terms for a period of 1000 hours from date of commissioning or 12 months from date of despatch whichever date occurs the sooner.