

SG4IR**SOYGEN**
GENERATOR
Your Power's Assurance**Ricardo Series Diesel Generator Sets****3**

Phase

41kVA
Standby**37**kVA
Prime**50**

Hz

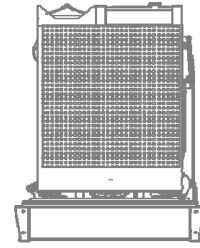
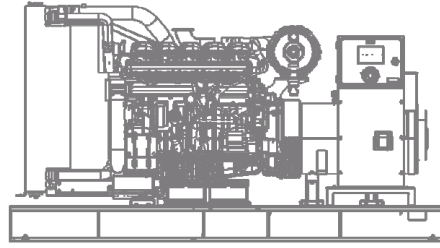
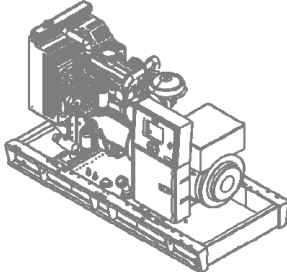
400

VAC



Output Power	kVA	kW
Standby Power (ESP)	41	33
Prime Power (PRP)	37	30

Dimensions	L x W x H (mm)	Weight (kg)	Fuel Tank (lt)
Open Type	2200 x 1000 x 1100	705	150
With Canopy	2200 x 1000 x 1400	845	150

**Continuous Power**

The rated power of a generating set represents the maximum continuous power it can deliver while providing a constant electrical load. The average load can reach 100%. However, it is crucial not to overload the generator to ensure its optimal performance and longevity.

Standby Power

The maximum available power during a variable electrical power sequence, under specified operating conditions, refers to the generating set's capacity to deliver power in the event of a utility power outage.

Prime Power

The rated power of a generating set represents the utmost capacity it can consistently deliver while accommodating a variable electrical load. It is recommended to maintain an average load of 70% for optimal performance. However, the generator can handle brief overloads of up to 10% for a duration of 1 minute.

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ESG ENERJİ VE GÜÇ SİSTEMLERİ SAN TİC LTD ŞTİ
İSTANBUL ENDÜSTRİ TİCARET SERBEST BÖLGESİ
AYDINLI SERBEST BÖLGE MAH. 4.SOK NO:2
TUZLA – İSTANBUL / TÜRKİYE

Engine Specifications

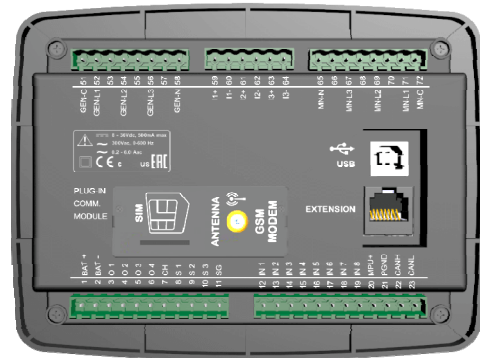
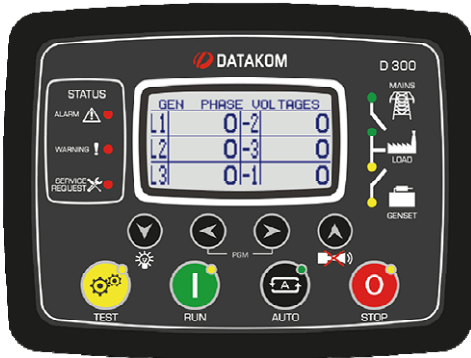
Manufacturer	Ricardo
Model	K4100ZD
Cylinder Configuration	Line
No of Cylinder	4
Displacement (lt)	4,15
Bore (mm)	105
Stroke (mm)	120
Compression Ratio	17:01
Aspiration	Turbocharger
Governor Type	Mechanical
Cooling Method	Water
Coolant Capacity (lt)	13
Lubrication Capacity (lt)	13
RPM	1500
Electrical System (VDC)	12
Engine Power (kW)	46
Fuel Consumption - %100 Load (lt/h)	8,6

Alternator Specifications

Phase	3
Power Factor	0,8
Voltage (VAC)	231/400
Frequency (Hz)	50
Type	4 Pole
Insulation	H
Protection Class	IP23
Bearing	Single
Coupling	Flexible Disc
Excitation System	AVR, Brushless

Controller Specifications

Manufacturer	Datakom
Model	D300 MKIII
Production Place	Türkiye
Language	Turkish (to be customized)
Display	128x64 Graphical LCD
Security	3 Level Configuration Password
Communication	USB – J1939 - CANBUS
IP Protection	IP65



Standard Specifications

Engine

SOYGEN generators exclusively employ industry-leading engine brands that boast cutting-edge technology and full compliance with ISO 8528, ISO 3046, BS 5514, and DIN 6271 standards. These engines are specifically designed for low fuel consumption while offering precise speed control and seamless integration with the fuel pump. Furthermore, they are equipped with either mechanic or electronic type governors to suit diverse operational requirements.

Alternator

We use leading alternator brands with state-of-the-art technology, high quality, and durability. All alternators meet rigorous international standards, such as EC 60034-1, CEI EN 60034-1, BS 4999-5000, VDE 0530, NF 51-100, 111, OVE M-10, and NEMA MG 1.22. They feature maintenance-free bearing systems and electronic voltage regulators for precise voltage setting.

Controller

SOYGEN generator sets feature a standard control panel for comfortable and safe usage. The panel allows easy monitoring of measurements, statistics, operating modes, alerts, and generator condition. Its metal body, made of steel sheet, contains an electronic control module and an emergency stop button, coated with electrostatic powder paint. SOYGEN offers quality standard panels and can also customize designs to meet specific customer requirements.

Chassis and Fuel Tank

SOYGEN generator sets feature robust steel chassis for superior durability, capable of bearing the generator's weight. Anti-vibration mounts minimise disturbances, ensuring smooth operation. Lifting lugs facilitate easy transportation and positioning. Custom solutions cater to specific customer preferences.

All tanks include level indicators for convenient fuel monitoring. SOYGEN's meticulous design approach guarantees reliable and high-performance generator sets.

Canopy

Modular type, sound isolation canopies.

Base rail with draw-out type fuel tank is provided with a drain plug, air Vent, inlet and outlet connections, level indicator, manhole etc.

Sub-base fuel tank with 8 hours capacity at 100% load.

Optional Specifications

Some optional equipments that SOYGEN provides with generator Sets;

- Medium voltage alternator,
- Remote radiator applications,
- Automatic fuel filling system,
- Fuel tank, oil pan, dashboard, alternator, coil heaters,
- Alternator with double AVR and PMG,
- Synchronization systems,
- The generator output breaker,
- Grid-generator transfer switches,
- Accordance with the specific volume of demand-insulated cabins,
- Seismic solutions,
- Trailer,
- Remote monitoring.