

50 Hz Diesel Generator











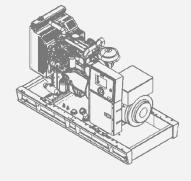


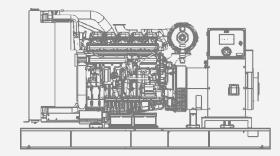


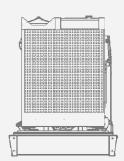
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Output Power	kVA	kW
Standby Power (ESP)	2200	1760
Prime Power (PRP)	2024	1619

Size	L x W x H (mm)	Weight (kg)	Fuel Tank (lt)	Noise dB(A) @ 7m
Canopied	12220 x 2470 x 3150	19576	3150	97
Open Skid	6000 x 2250 x 2560	11956	3500	N/A







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.

VIEW ONLINE















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Manufacturer Perkins Model 4016-61TRG2 Cylinder Configuration VType No of Cylinders 16 Displacement 61.123 ft Stroke 190 mm Bore 160 mm Compression Ratio 13:1 Aspiration Turbocharge-Intercooler Governor Type Electronic Cooling System Water Coolant Capacity 252 lt Lubrication Oil Capacity 2372 lt Electrical System 24 VDC Speed / Frequency 50 Hz 1500 rpm / 50 Hz Engine Gross Power (Standby 50 Hz) 1984 kW Fuel Consumption %110 ESP 50 Hz 463 lt/h Fuel Consumption %100 PRP 50 Hz 306 lt/h Fuel Consumption %50 PRP 50 Hz 306 lt/h Exhaust Outlet Temperature 50 Hz 489 °c Exhaust Gas Flow 50 Hz 490 m³/min Conbig Air Flow 50 Hz 175 m³/min Cooling Air Flow 50 Hz 208 lt/h	Engine	
Cylinder Configuration V Type No of Cylinders 16 Displacement 61.123 lt Stroke 190 mm Bore 160 mm Compression Ratio 13:1 Aspiration Turbocharge-Intercooler Governor Type Electronic Cooling System Water Coolant Capacity 252 lt Lubrication Oil Capacity 2372 lt Electrical System 24 VDC Speed / Frequency 50 Hz 1500 rpm / 50 Hz Engine Gross Power (Standby 50 Hz) 1984 kW Fuel Consumption %110 ESP 50 Hz 463 lt/h Fuel Consumption %100 PRP 50 Hz 306 lt/h Fuel Consumption %75 PRP 50 Hz 306 lt/h Fuel Consumption %50 PRP 50 Hz 208 lt/h Exhaust Outlet Temperature 50 Hz 499 °c Exhaust Gas Flow 50 Hz 490 m³/min Combustion Air Flow 50 Hz 175 m³/min	Manufacturer	Perkins
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Bore 160 mm Compression Ratio 13:1 Aspiration Turbocharge-Intercooler Governor Type Electronic Cooling System Water Coolant Capacity 252 lt Lubrication Oil Capacity 2372 lt Electrical System 24 VDC Speed / Frequency 50 Hz 1500 rpm / 50 Hz Engine Gross Power (Standby 50 Hz) 1984 kW Fuel Consumption %110 ESP 50 Hz 463 lt/h Fuel Consumption %100 PRP 50 Hz 405 lt/h Fuel Consumption %75 PRP 50 Hz 306 lt/h Fuel Consumption %50 PRP 50 Hz 208 lt/h Exhaust Outlet Temperature 50 Hz 489 °c Exhaust Gas Flow 50 Hz 490 m³/min Combustion Air Flow 50 Hz 175 m³/min	Displacement	61.123 lt
Compression Ratio 13:1 Aspiration Turbocharge-Intercooler Governor Type Electronic Cooling System Water Coolant Capacity 252 lt Lubrication Oil Capacity 2372 lt Electrical System 24 VDC Speed / Frequency 50 Hz 1500 rpm / 50 Hz Engine Gross Power (Standby 50 Hz) 1984 kW Fuel Consumption %110 ESP 50 Hz 463 lt/h Fuel Consumption %100 PRP 50 Hz 306 lt/h Fuel Consumption %50 PRP 50 Hz 306 lt/h Fuel Consumption %50 PRP 50 Hz 208 lt/h Exhaust Outlet Temperature 50 Hz 489 °c Exhaust Gas Flow 50 Hz 490 m³/min Combustion Air Flow 50 Hz 175 m³/min	Stroke	190 mm
Aspiration Turbocharge-Intercooler Governor Type Electronic Cooling System Water Coolant Capacity 252 lt Lubrication Oil Capacity 252 lt Lubrication Oil Capacity 2372 lt Electrical System 24 VDC Speed / Frequency 50 Hz 1500 rpm / 50 Hz Engine Gross Power (Standby 50 Hz) 1984 kW Fuel Consumption %110 ESP 50 Hz 463 lt/h Fuel Consumption %100 PRP 50 Hz 405 lt/h Fuel Consumption %50 PRP 50 Hz 306 lt/h Fuel Consumption %50 PRP 50 Hz 208 lt/h Exhaust Outlet Temperature 50 Hz 489 °c Exhaust Gas Flow 50 Hz 490 m³/min Combustion Air Flow 50 Hz 175 m³/min	Bore	160 mm
Governor TypeElectronicCooling SystemWaterCoolant Capacity252 ltLubrication Oil Capacity2372 ltElectrical System24 VDCSpeed / Frequency 50 Hz1500 rpm / 50 HzEngine Gross Power (Standby 50 Hz)1984 kWFuel Consumption %110 ESP 50 Hz463 lt/hFuel Consumption %75 PRP 50 Hz306 lt/hFuel Consumption %50 PRP 50 Hz306 lt/hExhaust Outlet Temperature 50 Hz489 °cExhaust Gas Flow 50 Hz490 m³/minCombustion Air Flow 50 Hz175 m³/min	Compression Ratio	13:1
Cooling System Coolant Capacity 252 lt Lubrication Oil Capacity 237.2 lt Electrical System 24 VDC Speed / Frequency 50 Hz Engine Gross Power (Standby 50 Hz) Fuel Consumption %110 ESP 50 Hz Fuel Consumption %100 PRP 50 Hz Fuel Consumption %75 PRP 50 Hz Fuel Consumption %75 PRP 50 Hz Exhaust Outlet Temperature 50 Hz Exhaust Gas Flow 50 Hz Exhaust Gas Flow 50 Hz Combustion Air Flow 50 Hz Water 252 lt Water 252 lt 252 lt 255 lt 267 lt 267 lt 268 lt/h 268 lt/h 278 lt 2	Aspiration	Turbocharge-Intercooler
Coolant Capacity Lubrication Oil Capacity Electrical System 24 VDC Speed / Frequency 50 Hz Engine Gross Power (Standby 50 Hz) Fuel Consumption % 110 ESP 50 Hz Fuel Consumption % 100 PRP 50 Hz Fuel Consumption % 75 PRP 50 Hz Fuel Consumption % 50 PRP 50 Hz Exhaust Outlet Temperature 50 Hz Exhaust Gas Flow 50 Hz Combustion Air Flow 50 Hz Combustion Air Flow 50 Hz Lubrication 237.2 lt 237.2 lt 24 VDC 24 VDC 25 VEY 26 VEY 26 VEY 27 VEY 28 VE	GovernorType	Electronic
Lubrication Oil Capacity 2372 It Electrical System 24 VDC Speed / Frequency 50 Hz 1500 rpm / 50 Hz Engine Gross Power (Standby 50 Hz) 1984 kW Fuel Consumption %110 ESP 50 Hz 463 lt/h Fuel Consumption %100 PRP 50 Hz 405 lt/h Fuel Consumption %75 PRP 50 Hz 306 lt/h Fuel Consumption %50 PRP 50 Hz 208 lt/h Exhaust Outlet Temperature 50 Hz 490 m³/min Combustion Air Flow 50 Hz 175 m³/min	Cooling System	Water
Electrical System 24 VDC Speed / Frequency 50 Hz 1500 rpm / 50 Hz Engine Gross Power (Standby 50 Hz) 1984 kW Fuel Consumption % 110 ESP 50 Hz 463 lt/h Fuel Consumption % 100 PRP 50 Hz 405 lt/h Fuel Consumption % 75 PRP 50 Hz 306 lt/h Fuel Consumption % 50 PRP 50 Hz 208 lt/h Exhaust Outlet Temperature 50 Hz 489 °c Exhaust Gas Flow 50 Hz 490 m³/min Combustion Air Flow 50 Hz	Coolant Capacity	252 lt
Speed / Frequency 50 Hz Engine Gross Power (Standby 50 Hz) Fuel Consumption %110 ESP 50 Hz Fuel Consumption %100 PRP 50 Hz Fuel Consumption %75 PRP 50 Hz Fuel Consumption %50 PRP 50 Hz Exhaust Outlet Temperature 50 Hz Exhaust Gas Flow 50 Hz Combustion Air Flow 50 Hz 1500 rpm / 50 Hz 463 lt/h 463 lt/h 405 lt/h 405 lt/h 405 lt/h 407 lt/h 408 lt/h 409 lt/h 409 lt/h 409 lt/h 409 m³/min	Lubrication Oil Capacity	237.2 lt
Engine Gross Power (Standby 50 Hz) Fuel Consumption %110 ESP 50 Hz Fuel Consumption %100 PRP 50 Hz Fuel Consumption %75 PRP 50 Hz Fuel Consumption %50 PRP 50 Hz Exhaust Outlet Temperature 50 Hz Exhaust Gas Flow 50 Hz Combustion Air Flow 50 Hz 1984 kW 463 lt/h 208 lt/h 490 m³/min	Electrical System	24 VDC
Fuel Consumption % 110 ESP 50 Hz Fuel Consumption % 100 PRP 50 Hz Fuel Consumption % 75 PRP 50 Hz Fuel Consumption % 50 PRP 50 Hz Exhaust Outlet Temperature 50 Hz Exhaust Gas Flow 50 Hz Combustion Air Flow 50 Hz 463 lt/h 405 lt/h 405 lt/h 405 lt/h 405 lt/h 405 lt/h 407 lt/h 408 lt/h 409 lt/h	Speed / Frequency 50 Hz	1500 rpm / 50 Hz
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Exhaust Outlet Temperature 50 Hz Exhaust Gas Flow 50 Hz Combustion Air Flow 50 Hz 489 °c 490 m³/min 175 m³/min	Fuel Consumption %75 PRP 50 Hz	306 lt/h
Exhaust Gas Flow 50 Hz Combustion Air Flow 50 Hz 490 m³/min 175 m³/min	Fuel Consumption %50 PRP 50 Hz	208 lt/h
Combustion Air Flow 50 Hz 175 m³/min	Exhaust Outlet Temperature 50 Hz	489 °c
	Exhaust Gas Flow 50 Hz	490 m³/min
Cooling Air Flow 50 Hz 2082 m³/min	Combustion Air Flow 50 Hz	175 m³/min
	Cooling Air Flow 50 Hz	2082 m³/min

Alternator	
No of Phases	3
Power Factor	0.8
No of Bearings	Single
No of Poles	4
No of Leads	6-12
Insulation Class	H-F
Degree of Protection	IP23
Excitation System	AVR (Automatic Voltage Regulator), Brushless











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Standard Equipments

Engine

ADE 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.

Control Panel

ADE 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. ADE offers quality standard panels and can also customize designs to meet specific customer requirements.

Chassis and FuelTank

ADE 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.

Generators below 1600 kVA have integrated fuel tanks, optimizing space, while larger sets have separate rectangular fuel tanks. All tanks include level indicators for convenient fuel monitoring. ADE's meticulous design approach guarantees reliable and high-performance generator sets.

Cooling System

The system comprises a high-quality industrial-type radiator, an expansion tank, and a cooler fan, meticulously designed to maintain the temperature of the generator set's components at a consistently optimal level. This thoughtful integration ensures the efficient and reliable performance of the generator set throughout its operational lifespan.



*Image for illustration purposes only, actual product may differ

Canopy Features

ADE standard canopies' default features are as follows;

- Compatible with 2000/14/EC directives, certified noise emission level,
- 2 or 4 points transport possibility according to cabin size,
- Hidden exhaust inside the canopy,
- Emergency stop button located on the canopy,
- Improved air suction channel to ensure homogenous cooling in the canopy,
- Radiator air outlet and exhaust designed to expel vertically.
- Easy-access cap to add water and antifreeze to the radiator.
- Amplified paint system against corrosion and rust,
- Improved performance in terms of sound insulation,
- Demountable parts that make transportation and maintenance easier.

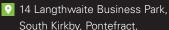
In addition to our comprehensive standard range of canopies, ADE offers the flexibility to design tailor-made canopies, specifically catering to individual requirements for desired sound levels or dimensions on request. Our team of experts is dedicated to providing customized solutions that perfectly match your unique needs, ensuring a seamless and optimal performance for your generator set.

Optional Equipments

Some optional equipments that ADE provides with generator

- 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











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Control Panel Features - DSE-7320

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Tier 4 CAN engine support
- Integral PLC editor
- Easy access diagnostic page
- CAN and Magnetic Pick-up/Mt. sensing
- · Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Engine exerciser
- "Protections disabled" feature
- kW & kV k protection
- Reverse power (kW & kV k) LED and LCD alarm indication
- Power monitoring (kW h, kV h, kV Ah, kV k h)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- User selectable RS232 and RS485 communications
- Configurable Gencomm pages
- Advanced SMS messaging(additional external modem required)
- Start & stop capability via SMS messaging
- Additional display screens to help with modern diagnostics
- Idle control for starting & stopping.
- DSENet® expansion compatible
- Heated display option available



DSE DEEP SEA ELECTRONICS

Functions

- AMF unit
- Remote start controller
- Manuel start controller
- Engine controller
- Remote display & control unit
- CTs at genset or load side

Communications

- Web monitoring
- GSM-SMS (requeired externally modem)
- e-mail
- USB Device
- RS-232
- J1939-CANBUS

Topologies

- 2 phase 3 wires, L1-L2
- 2 phase 3 wires, L1-L3
- 3 phase 3 wires
- 3 phase 4 wires, star
- 3 phase 4 wires, delta
- 1 phase 2 wires













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WARRANTY CERTIFICATE DURATION

Manufacturers warranty applies to new diesel generator sets to be free from defects in material and workmanship in production for 24 months or 1000 hours from the date of delivery to first user (which occurs first). Warranty period is limited by 30 months from the date of shipment ex-works.

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