



DIESEL POWER PLANTS

16.0 — 33.0 kVA

HEAVY DUTY SERIES

Diesel power plants of HEAVY DUTY Silent Diesel Generator series from Könnér & Söhnen® are developed on the basis of low-speed engines (1500 rpm) from world-renowned companies that produce engines for the markets of Europe and the USA. Absolute compliance of the engines with the standards of reliability, economy, environmental friendliness, technical and operational safety of power plants is the best confirmation of the high quality of products.

With the company's in-house developments and conformity to Könnér & Söhnen requirements, all power stations have a margin of power against the declared specifications.

Diesel power plants from German company Könnér & Söhnen® take into account all your needs in providing of both emergency and backup power - for longer power supply of residential buildings and small commercial facilities.

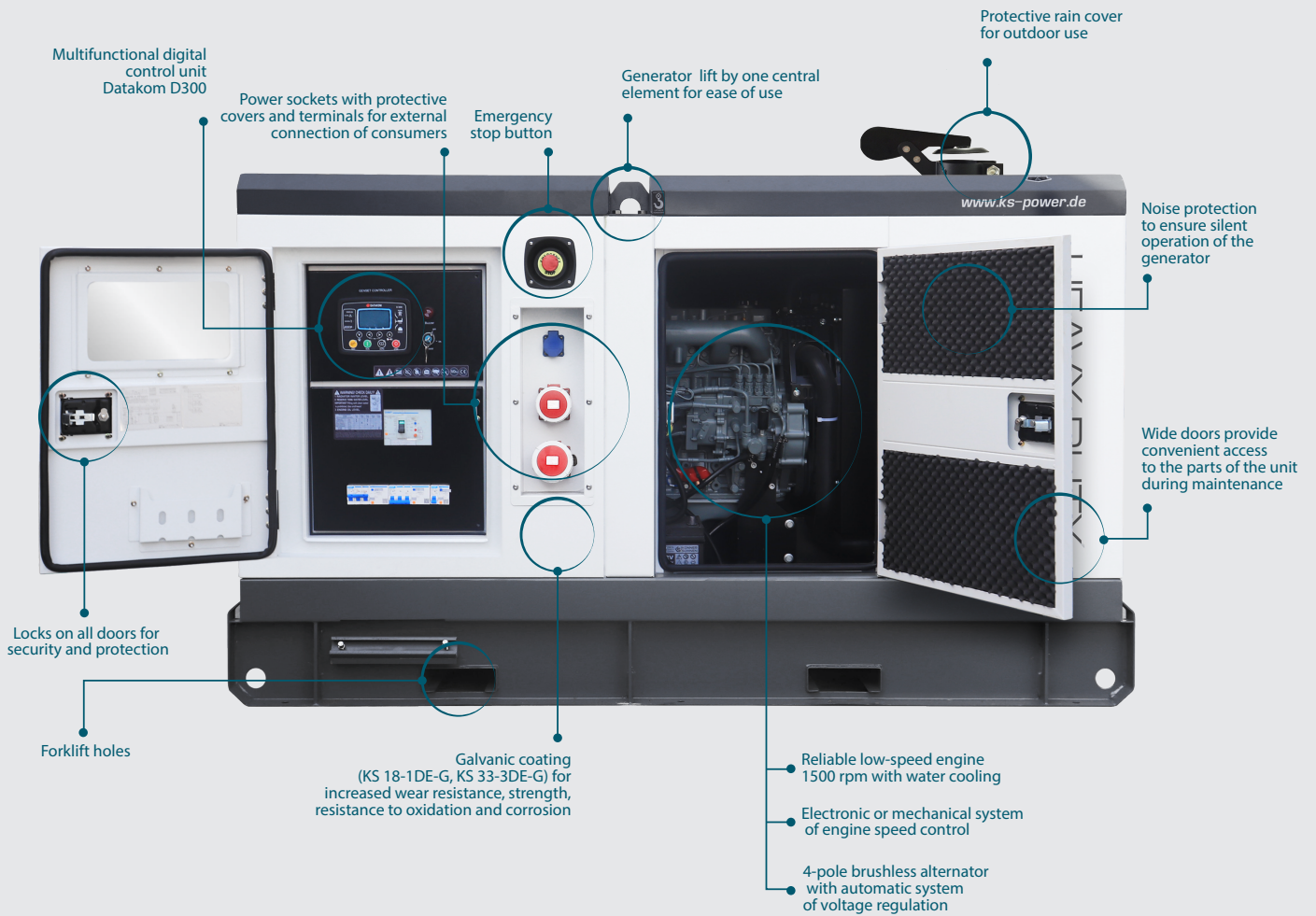
- Low-speed reliable engine 1500 rpm
- Electronic or mechanical system of engine revolutions control
- 4-pole brushless AC alternator with an automatic system of adjusting voltage
- Pre-start heating
- Digital control unit
- Soundproof anti-vandal housing with galvanic coating (optional)
- Commissioning works in Europe
- Warranty 2 years

Additional options:

- Automatic transfer switch unit
- GSM module

TRADITIONS OF GERMAN QUALITY ARE AFFORDABLE FOR EVERYBODY!





Low-speed reliable engines

The modern low-speed 1500 rpm engines provides optimal performance, has an increased service life for long-term use, as well as economical fuel consumption, making the German brand power stations one of the most cost-effective units. The electronic engine speed control system is a computer-assisted automatic engine speed controller that quickly responds to load changes, improves the quality of the electric power produced by the power station and guarantees the most stable frequency of 50 Hz.

Brushless alternator

Equipped with a 4-pole brushless Stamford type AC alternator, synchronous type, with a self-excitation system and a highly efficient electronic system of regulation AVR.



Commissioning in Europe

Könnér & Söhnen® diesel power stations undergo pre-commissioning preparation and test start-up with control of compliance with all parameters of correct operation in Europe at our in-house service center. A special loading machine is used to check the power output of the power station in different operating conditions and to fine-tune the electronics control unit.

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Water cooling

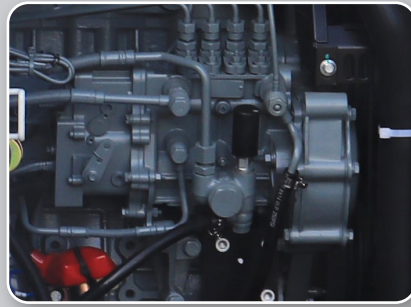
The water-cooled engine system ensures reliable operation of the unit and prevents premature engine failure. The efficient cooling of the engine allows this generator set to be exposed to high ambient temperatures.

Preheater

The engine preheater facilitates the start-up of the power station with no load on the engine, even in sub-zero temperatures during the cold season. The system automatically pre-heats the engine's water jacket to the required temperature and maintains the engine temperature to facilitate the engine start-up in any weather.

Digital controller

All operations are controlled via modern multifunctional digital controller. The controller provides monitoring of all operating indicators of the power station, convenient start-up and operation settings, monitoring of the battery status, engine speed and fuel supply adjusted to the load, and protection against overheating and low oil level. It also signals possible faults and reports the need for service maintenance.



Soundproof anti-vandal housing

The high-quality sound-proof housing provides significant noise reduction during unit operation, improves the thermal distribution and protects the power station against ingress of moisture and condensation, exposure to adverse weather conditions and tampering. Special galvanic coating adds to the wear resistance, durability, oxidation resistance and corrosion resistance, thus greatly extending the unit's service life.

In addition, the low-noise low-speed engines mounted on anti-vibration pads contribute to quieter operation and reduce the load on the base.

The power station has an emergency stop button for quick engine shutdown in an emergency.

Easy maintenance

Wide doors allow easy access to unit parts during maintenance. The housing has openings for transportation aids, facilitating shipment, transportation, and installation of the unit.

TRADITIONS OF GERMAN QUALITY ARE AFFORDABLE FOR EVERYBODY!



SINGLE-PHASE DIESEL POWER STATION

HEAVY DUTY Silent Diesel Generator series

KS 18-1DE-G

17.6/16 kVA



The KS 18-1DE-G single-phase diesel power station of the HEAVY DUTY series of the German brand Könnér & Söhnen® is a reliable generator set with a maximum capacity of 17.6 kVA.

The power station features a low-speed liquid-cooled Deutz four-cylinder engine. German company Deutz has a 150-year history of making diesel engines (including those for automotive and agricultural machinery), incorporating cutting-edge technologies and materials, high quality, reliability, failure-free performance and durability. Deutz engines demonstrate excellent performance in the most adverse conditions and can withstand maximum loads without compromising the service life. In addition, the KS 18-1DE-G diesel generator is equipped with a four-pole brushless AC alternator with an automatic voltage regulator, a preheater for use in the cold season, a 55 l fuel tank offering a 17-hour autonomous operation without refueling (fuel consumption is 3.3 liters per hour at an average 50% load), with possibility to connect an automatic start/stop system, and an all-weather anti-vandal soundproof housing with **anti-corrosion galvanic coating**.

The powerful diesel generator KS 18-1DE-G is a professional unit developed using advanced technologies, while an easy-to-use device that can provide power for single-phase consumers. To ensure universality of use, the diesel generator is equipped with protected power sockets and power terminals for external connection of consumers.

POWER STATION SPECIFICATIONS

Model	KS 18-1DE-G
Voltage, V	230
Maximum power 230V, kVA	17.6
Rated power 230V, kVA	16
Max. current, A	76,52

ENGINE SPECIFICATIONS

Engine type	Water-cooled four-cylinder four-stroke diesel engine
Engine brand	Deutz
Engine model	BFM3 G1
Engine speed, rpm	1500
Cooling type	liquid
Engine speed control	electronic
Engine capacity, cm ³	3170
Crankcase capacity, l	5,5
Coolant volume, l	10
Fuel tank volume, l	55
Fuel consumption, l/h (at 50% load)	3.3
Running time at full fuel tank, h	17
Preheater	yes

GENERAL SPECIFICATIONS

Housing type	soundproof, moisture-proof, all-weather, anti-vandal, anti-corrosion galvanic coating
Noise level, Lpa (7 m)/Lwa, dB	72/97
Control unit	multifunctional digital controller
Controller model	Datakom D300
Alternator type	Stamford type, synchronous, self-excitation system, AC brushless, four-pole
AVR type	High-performance electronic voltage regulator (AVR)
Protection class	IP24
Sockets	2 x Schuko 230 V 1 x CEE 230V 32A
Battery capacity, Ah	85
Battery charger	integrated
Net dimensions (L x W x H), mm	2160 x 950 x 1250
Gross dimensions (L x W x H), mm	2190 x 980 x 1270
Net weight, kg	852
Gross weight, kg	855
Nominal voltage tolerance	max. 5%
Warranty	2 years

*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the power station.

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SINGLE-PHASE DIESEL POWER STATION

HEAVY DUTY Silent Diesel Generator series

KS 18-1YE

17.6/16 kVA



The KS 18-1YE single-phase diesel power station of the HEAVY DUTY series of the German brand Könnér & Söhnen® is a reliable generator set with a maximum capacity of 17.6 kVA.

The power station features a liquid-cooled four-cylinder engine from the world-class engine maker YangDong. YangDong Co., Ltd. is the largest manufacturer of multi-cylinder diesel engines and supplier of latter-day high-tech products to more than 100 countries, combining flawless reliability and durability even in the most extreme operating conditions. YangDong Co., Ltd. maintains a strong presence in the European and U.S. markets, requiring unconditional compliance with applicable standards for reliability, fuel efficiency, environmental friendliness, and technical and operational safety of power plants, which best proves the high quality of products. The KS 18-1YE diesel generator is equipped with a four-pole brushless AC alternator with an automatic voltage regulator, a preheater for use in the cold season, a 76 l fuel tank offering a 21-hour autonomous operation without refueling (fuel consumption is 3.7 liters per hour at an average 50% load), connection for an automatic start/stop system, and an all-weather anti-vandal soundproof housing with anti-corrosion coating.

The high-performance KS 18-1YE diesel generator is a professional unit incorporating advanced technology but is also easy to use and can supply high-performance single-phase consumers. Protected power sockets and terminals for the external connection of power consumers add to the versatility of the diesel generator.

POWER STATION SPECIFICATIONS

Model	KS 18-1YE
Voltage, V	230
Maximum power 230V, kVA	17.6
Rated power 230V, kVA	16
Max. current, A	76,52

ENGINE SPECIFICATIONS

Engine type	Water-cooled four-cylinder four-stroke diesel engine
Engine brand	YangDong
Engine model	YSD490D
Engine speed, rpm	1500
Cooling type	liquid
Engine speed control	electronic
Engine capacity, cm ³	2540
Crankcase capacity, l	7
Coolant volume, l	12
Fuel tank volume, l	76
Fuel consumption, l/h (at 50% load)	3.7
Running time at full fuel tank, h	21
Preheater	yes

GENERAL SPECIFICATIONS

Housing type	soundproof, moisture-proof, all-weather, anti-vandal, anti-corrosion coating
Noise level, Lpa (7 m)/Lwa, dB	72/97
Control unit	multifunctional digital controller
Controller model	Datakom D300
Alternator type	Stamford type, synchronous, self-excitation system, AC brushless, four-pole
AVR type	High-performance electronic voltage regulator (AVR)
Protection class	IP24
Sockets	2 x Schuko 230 V 1 x CEE 230V 32A
Battery capacity, Ah	85
Battery charger	integrated
Net dimensions (L x W x H), mm	2160 x 950 x 1250
Gross dimensions (L x W x H), mm	2190 x 980 x 1270
Net weight, kg	975
Gross weight, kg	978
Nominal voltage tolerance	max. 5%
Warranty	2 years

*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the power station.

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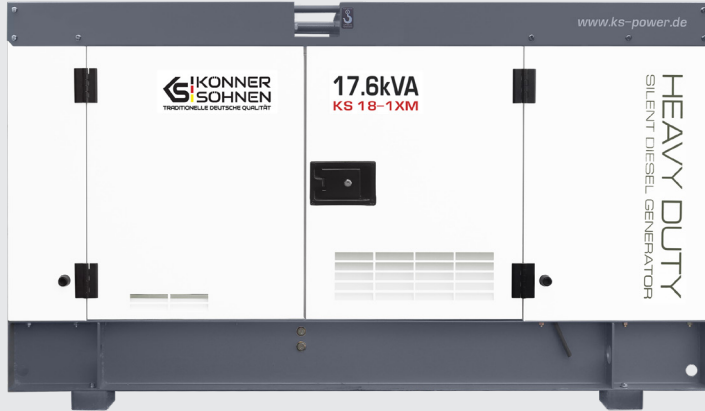


SINGLE-PHASE DIESEL POWER STATION

HEAVY DUTY Silent Diesel Generator series

KS 18-1XM

17.6/16 kVA



The KS 18-1XM single-phase diesel power station of the HEAVY DUTY series of the German brand Könnér & Söhnen® is a reliable generator set with a maximum capacity of 17.6 kVA.

The power station features a low-speed liquid-cooled Xinchai four-cylinder engine. Xinchai Co. Ltd is a world-renowned manufacturer of multi-cylinder diesel engines (including those for construction and agricultural machinery) with more than 40 years of experience in design and production. Xinchai's high-tech manufacturing enjoys impeccable market orientation and develops engines with more efficient parameters, lower fuel consumption and lower emissions. The KS 18-1XM diesel generator is equipped with a four-pole brushless AC alternator with an automatic voltage regulator, a preheater for use in the cold season, a 53 l fuel tank offering a 15-hour autonomous operation without refueling (fuel consumption is 3,59 liters per hour at an average 50% load), connection for an automatic start/stop system, and an all-weather anti-vandal soundproof housing.

The high-performance KS 18-1XM diesel generator is a professional unit incorporating advanced technology but is also easy to use and can supply high-performance single-phase consumers.

POWER STATION SPECIFICATIONS

Model	KS 18-1XM
Voltage, V	230
Maximum power 230V, kVA	17.6
Rated power 230V, kVA	16
Max. current, A	76,52

ENGINE SPECIFICATIONS

Engine type	Water-cooled four-cylinder four-stroke diesel engine
Engine brand	Xinchai
Engine model	C490BD
Engine speed, rpm	1500
Cooling type	liquid
Engine speed control	mechanical
Engine capacity, cm ³	2600
Crankcase capacity, l	5,5
Coolant volume, l	15
Fuel tank volume, l	53
Fuel consumption, l/h (at 50% load)	3,59
Running time at full fuel tank, h	15
Preheater	yes

GENERAL SPECIFICATIONS

Housing type	soundproof, moisture-proof, all-weather, anti-vandal, anti-corrosion coating
Noise level, Lpa (7 m)/Lwa, dB	72/97
Control unit	multifunctional digital controller
Controller model	Datakom D300
Alternator type	Stamford type, synchronous, self-excitation system, AC brushless, four-pole
AVR type	High-performance electronic voltage regulator (AVR)
Protection class	IP24
Sockets	-
Battery capacity, Ah	85
Battery charger	integrated
Net dimensions (L x W x H), mm	1850x740x1000
Gross dimensions (L x W x H), mm	1880x770x1020
Net weight, kg	732
Gross weight, kg	735
Nominal voltage tolerance	max. 5%
Warranty	2 years

*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the power station.

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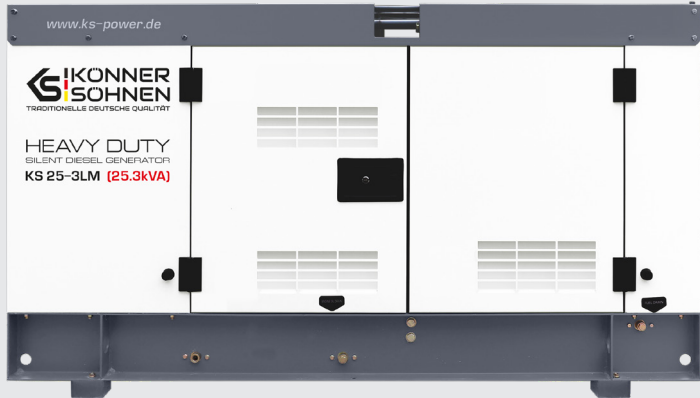


THREE-PHASE DIESEL POWER STATION

HEAVY DUTY Silent Diesel Generator series

KS 25-3LM

25.3/23 kVA



The KS 25-3LM three-phase diesel power station of the HEAVY DUTY series of the German brand Könnér & Söhnen® is a reliable generator set with a maximum capacity of 25.3 kVA.

The KS 25-3LM diesel generator based on a liquid-cooled Laidong four-cylinder engine is a cost-effective solution from Könnér & Söhnen®. It conforms to all European quality standards, offers outstanding safety and is thus suitable for private and commercial use. In addition, the KS 25-3LM diesel generator is equipped with a four-pole brushless AC alternator with an automatic voltage regulator, a preheater for use in the cold season, a 57 l fuel tank offering a 14-hour autonomous operation without refueling (fuel consumption is 4,1 liters per hour at an average 50% load), connection for an automatic start/stop system, and an all-weather anti-vandal soundproof housing.

The KS 25-3LM diesel generator is a high-performance unit featuring a controller for all basic operating parameters and can supply both three-phase and single-phase consumers. With the company's in-house developments and conformity to Könnér & Söhnen requirements, all power stations have a margin of power against the declared specifications.

POWER STATION SPECIFICATIONS

Model	25-3LM
Voltage, V	230 /400
Maximum power 400V, kVA	25.3
Rated power 400V, kVA	23
Max. current, A	36,45

ENGINE SPECIFICATIONS

Engine type	Water-cooled four-cylinder four-stroke diesel engine
Engine brand	Laidong
Engine model	DPKM490BD
Engine speed, rpm	1500
Cooling type	liquid
Engine speed control	mechanical
Engine capacity , cm ³	2545
Crankcase capacity, l	5.5
Coolant volume, l	10
Fuel tank volume, l	57
Fuel consumption, l/h (at 50% load)	4,1
Running time at full fuel tank, h	14
Preheater	yes

GENERAL SPECIFICATIONS

Housing type	soundproof, moisture-proof, all-weather, anti-vandal, anti-corrosion coating
Noise level, Lpa (7 m)/Lwa, dB	72/97
Control unit	multifunctional digital controller
Controller model	Datakom D300
Alternator type	Stamford type, synchronous, self-excitation system, AC brushless, four-pole
AVR type	High-performance electronic voltage regulator (AVR)
Protection class	IP24
Sockets	-
Battery capacity, Ah	85
Battery charger	integrated
Net dimensions (L x W x H), mm	1700x780x1000
Gross dimensions (L x W x H), mm	1730x810x1020
Net weight, kg	680
Gross weight, kg	683
Nominal voltage tolerance	max. 5%
Warranty	2 years

*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the power station.

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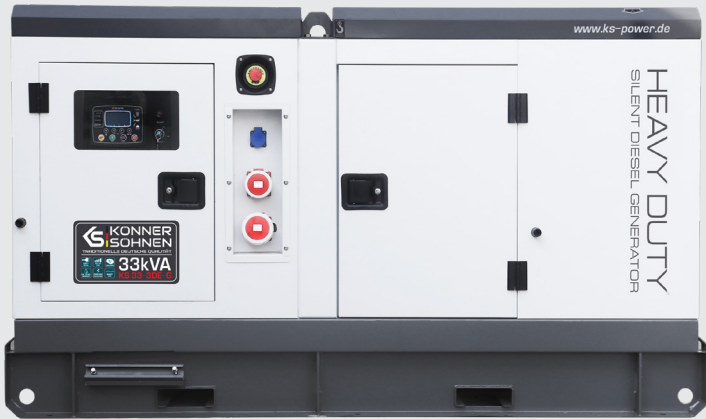


THREE-PHASE DIESEL POWER STATION

HEAVY DUTY Silent Diesel Generator series

KS 33-3DE-G

33/30 kVA



The KS 33-3DE-G three-phase diesel power station of the HEAVY DUTY series of the German brand Könnér & Söhnen® is a reliable generator set with a maximum capacity of 33 kVA.

The power station features a low-speed liquid-cooled Deutz four-cylinder engine. German company Deutz has a 150-year history of making diesel engines (including those for automotive and agricultural machinery), incorporating cutting-edge technologies and materials, high quality, reliability, failure-free performance and durability. Deutz engines demonstrate excellent performance in the most adverse conditions and can withstand maximum loads without compromising the service life. In addition, the KS 33-3DE-G diesel generator is equipped with a four-pole brushless AC alternator with an automatic voltage regulator, a preheater for use in the cold season, a 57 l fuel tank offering a 15-hour autonomous operation without refueling (fuel consumption is 3,7 liters per hour at an average 50% load), with possibility to connect an automatic start/stop system, and an all-weather anti-vandal soundproof housing with **anti-corrosion galvanic coating**.

The powerful diesel generator KS 33-3DE-G is a professional unit developed using advanced technologies, while an easy-to-use device that can provide power for both three-phase and single-phase consumers.

To ensure universality of use, the diesel generator is equipped with protected power sockets and power terminals for external connection of consumers.

POWER STATION SPECIFICATIONS

Модель	KS 33-3DE-G
Voltage, V	230 /400
Maximum power 400V, kVA	33
Rated power 400V, kVA	30
Max. current, A	47,63

ENGINE SPECIFICATIONS

Engine type	Water-cooled four-cylinder four-stroke diesel engine
Engine brand	Deutz
Engine model	BFM3 G2
Engine speed, rpm	1500
Cooling type	liquid
Engine speed control	electronic
Engine capacity , cm ³	3168
Crankcase capacity, l	5,5
Coolant volume, l	10
Fuel tank volume, l	57
Fuel consumption, l/h (at 50% load)	3,7
Running time at full fuel tank, h	15
Preheater	yes

GENERAL SPECIFICATIONS

Housing type	soundproof, moisture-proof, all-weather, anti-vandal, anti-corrosion galvanic coating
Noise level, Lpa (7 м)/Lwa, dB	72/97
Control unit	multifunctional digital controller
Controller model	Datakom D300
Alternator type	Stamford type, synchronous, self-excitation system, AC brushless, four-pole
AVR type	High-performance electronic voltage regulator (AVR)
Protection class	IP24
Sockets	1 x Schuko 230 V 1 x CEE 400V 32A 1 x CEE 400V 16A
Battery capacity, Ah	85
Battery charger	integrated
Net dimensions (L x W x H), mm	2160 x 950 x 1250
Gross dimensions (L x W x H), mm	2190 x 980 x 1270
Net weight, kg	856
Gross weight, kg	859
Nominal voltage tolerance	max. 5%
Warranty	2 years

*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the power station.

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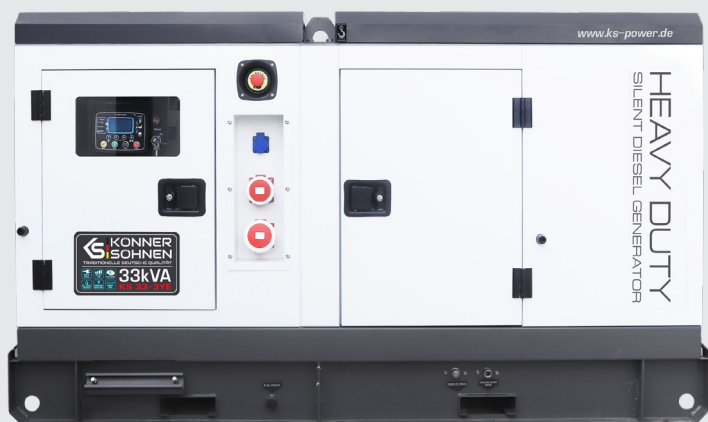


THREE-PHASE DIESEL POWER STATION

HEAVY DUTY Silent Diesel Generator series

KS 33-3YE

33/30 kVA



The KS 33-3YE three-phase diesel power station of the HEAVY DUTY series of the German brand Könnér & Söhnen® is a reliable generator set with a maximum capacity of 33 kVA.

The power station features a liquid-cooled four-cylinder engine from the world-class engine maker YangDong.

YangDong Co., Ltd. is the largest manufacturer of multi-cylinder diesel engines and supplier of high-tech products to more than 100 countries, combining flawless reliability and durability even in the most extreme operating conditions. YangDong Co., Ltd. maintains a strong presence in the European and U.S. markets, requiring unconditional compliance with applicable standards for reliability, fuel efficiency, environmental friendliness, and technical and operational safety of power plants, which best proves the high quality of products. The KS 33-3YE diesel generator is equipped with a four-pole brushless AC alternator with an automatic voltage regulator, a preheater for use in the cold season, a 75 l fuel tank offering a 15-hour autonomous operation without refueling (fuel consumption is 5,1 liters per hour at an average 50% load), connection for an automatic start/stop system, and an all-weather anti-vandal soundproof housing.

The high-performance KS 33-3YE diesel generator is a professional unit incorporating advanced technology but is also easy to use and can supply both three-phase and single-phase consumers.

Protected power sockets and terminals for the external connection of power consumers add to the versatility of the diesel generator.

POWER STATION SPECIFICATIONS

Модель	KS 33-3YE
Voltage, V	230 /400
Maximum power 400V, kVA	33
Rated power 400V, kVA	30
Max. current, A	47.63

ENGINE SPECIFICATIONS

Engine type	Water-cooled four-cylinder four-stroke diesel engine
Engine brand	YangDong
Engine model	Y4100D
Engine speed, rpm	1500
Cooling type	liquid
Engine speed control	electronic
Engine capacity , cm ³	3707
Crankcase capacity, l	8
Coolant volume, l	14
Fuel tank volume, l	75
Fuel consumption, l/h (at 50% load)	5.1
Running time at full fuel tank, h	15
Preheater	yes

GENERAL SPECIFICATIONS

Housing type	soundproof, moisture-proof, all-weather, anti-vandal, anti-corrosion coating
Noise level, Lpa (7 м)/Lwa, dB	72/97
Control unit	multifunctional digital controller
Controller model	Datakom D300
Alternator type	Stamford type, synchronous, self-excitation system, AC brushless, four-pole
AVR type	High-performance electronic voltage regulator (AVR)
Protection class	IP24
Sockets	1 x Schuko 230 V 1 x CEE 400V 32A 1 x CEE 400V 16A
Battery capacity, Ah	2 x 85
Battery charger	integrated
Net dimensions (L x W x H), mm	2160 x 950 x 1250
Gross dimensions (L x W x H), mm	2190 x 980 x 1270
Net weight, kg	978
Gross weight, kg	981
Nominal voltage tolerance	max. 5%
Warranty	2 years

*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the power station.

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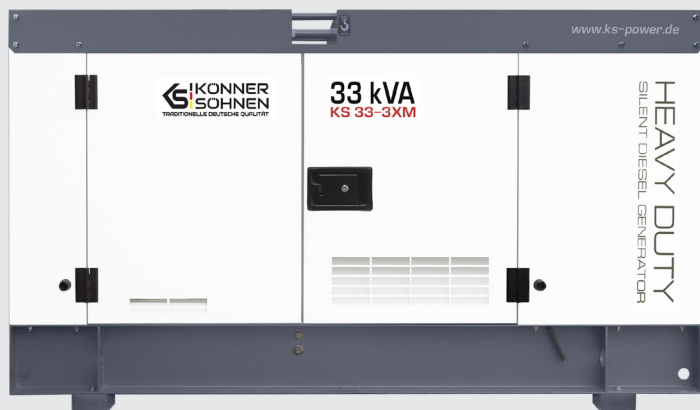


THREE-PHASE DIESEL POWER STATION

HEAVY DUTY Silent Diesel Generator series

KS 33-3XM

33/30 kVA



The KS 33-3XM three-phase diesel power station of the HEAVY DUTY series of the German brand Könnér & Söhnen® is a reliable generator set with a maximum capacity of 33 kVA.

The power station features a low-speed liquid-cooled Xinchai four-cylinder engine. Xinchai Co. Ltd is a world-renowned manufacturer of multi-cylinder diesel engines (including those for construction and agricultural machinery) with more than 40 years of experience in design and production. Xinchai's high-tech manufacturing enjoys impeccable market orientation and develops engines with more efficient parameters, lower fuel consumption and lower emissions. The KS 33-3XM diesel generator is equipped with a four-pole brushless AC alternator with an automatic voltage regulator, a preheater for use in the cold season, a 75 l fuel tank offering a 15-hour autonomous operation without refueling (fuel consumption is 4,9 liters per hour at an average 50% load), connection for an automatic start/stop system, and an all-weather anti-vandal soundproof housing.

The high-performance KS 33-3XM diesel generator is a professional unit incorporating advanced technology but is also easy to use and can supply both three-phase and single-phase consumers.

POWER STATION SPECIFICATIONS

Model	KS 33-3XM
Voltage, V	230 /400
Maximum power 400V, kVA	33
Rated power 400V, kVA	30
Max. current, A	47,63

ENGINE SPECIFICATIONS

Engine type	Water-cooled four-cylinder four-stroke diesel engine
Engine brand	Xinchai
Engine model	A498BD
Engine speed, rpm	1500
Cooling type	liquid
Engine speed control	mechanical
Engine capacity , cm ³	3170
Crankcase capacity, l	5.5
Coolant volume, l	15
Fuel tank volume, l	75
Fuel consumption, l/h (at 50% load)	4.9
Running time at full fuel tank, h	15
Preheater	yes

GENERAL SPECIFICATIONS

Housing type	soundproof, moisture-proof, all-weather, anti-vandal
Noise level, Lpa (7 m)/Lwa, dB	72/97
Control unit	multifunctional digital controller
Controller model	Datakom D300
Alternator type	Stamford type, synchronous, self-excitation system, AC brushless, four-pole
AVR type	High-performance electronic voltage regulator (AVR)
Protection class	IP24
Sockets	-
Battery capacity, Ah	85
Battery charger	integrated
Net dimensions (L x W x H), mm	1850x780x1000
Gross dimensions (L x W x H), mm	1880x810x1020
Net weight, kg	739
Gross weight, kg	742
Nominal voltage tolerance	max. 5%
Warranty	2 years

*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the power station.

TRADITIONS OF GERMAN QUALITY ARE AFFORDABLE FOR EVERYBODY!





Maximum safety

The Könnér & Söhnen® power station is equipped with control of all necessary functions for maximum user safety and extended engine life.

Electrical safety:

- overpower protection
- reverse power protection
- current and voltage unbalance protection
- ground connector
- short circuit protection
- engine overtemperature protection

Mechanical safety:

- robust housing
- protected hot spots
- protected actuated parts
- low oil level protection
- engine emergency stop button

The Könnér & Söhnen® diesel power station has a sophisticated configuration for the comfortable and safe operation of the unit. It has a protection class IP24.

Safety precautions and regulations must be strictly observed at all times when operating the unit.



International 24-month warranty

Fully aware of our responsibility to the customer, we vouch for our products and offer a two-year international warranty for Könnér & Söhnen® diesel power stations.

Please note that the warranty remains valid provided that the unit is installed, connected and operated correctly, as follows:

The generator set must be installed by certified technicians in compliance with applicable regulations.

The power station must be connected by a certified electrician.

Maintenance must be performed by a certified service center as per the maintenance schedule attached to the warranty card.

For warranty coverage and performance, the continuous load on the power station must not exceed 80% of the unit's rated capacity.



After-sales service

We provide a comprehensive after-sales service using our own resources and through certified repair and installation teams. Our central warehouse always has a stock of spare parts. Besides, we have created an additional service for customers - a support hotline.

This is because the problems often arise not from a breakdown but from improper operation of the power station. With our support hotline, customers can always get quick advice on a specific situation and detailed guidance on how to adjust the operation of the unit.

Each diesel power station has three serial numbers:

- on the engine
- on the alternator
- on the outer casing of the power station

This is how we fully control the quality of production and service.



Quality certificates

As the primary market for Könnér & Söhnen® products, the European market (Germany, Poland, France, Spain, etc.) requires all necessary European Certificates and Declarations of Conformity to specific Safety Directives. Hence, all Könnér & Söhnen diesel power stations already have the necessary European quality certificates and CE declarations of conformity.

ISO 9001 Quality Certificate

Könnér & Söhnen® generator sets comply with EU requirements, including the following directives:

- 2006/42/EC Machinery Directive
- 2014/30/EU Electromagnetic Compatibility
- EN 60204-1:2018; EN ISO 12100:2010; EN 61000-6-2:2019; EN 61000-6-4:2019 norms

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ATS

(Automatic transfer switch)

KS ATS 4/100HD



KS ATS 4/100HD-O



All Könnér & Söhnen® diesel power stations feature an ATS connector for an ATS unit (Automatic Transfer Switch).

We offer two types of ATS units:

- First option is ATS unit in metal housing for external installation
- Another option is ATS unit for installation inside the switchboard

CHARACTERISTICS

Model	KS ATS 4/100HD	KS ATS 4/100HD-O
Power consumption	18 W	18 W
Voltage	230 V/400 V	230 V/400 V
Power 230V (cosφ =1)	23 kW	23 kW
Current (max): 230V	100 A	100 A
Power 400V (cosφ =0.8)	55 kW	55 kW
Current (max): 400V	100 A	100 A
Working environment	from -20°C to +45°C; humidity: ≤ 50%	from -20°C to +45°C; humidity: ≤ 50%
Storage environment	from -30°C to +70°C; humidity: ≤ 50%	from -30°C to +70°C; humidity: ≤ 50%
IP protection class	IP44	IP44
Insulation class	AC1.0KV/1min 1mA	AC1.0KV/1min 1mA
Net dimensions	500x300x600 mm	515x415x150 mm
Net weight	21 kg	5 kg

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**DIESEL POWER PLANTS
HEAVY DUTY SERIES**


Number of phases	single-phase	single-phase	single-phase
Voltage, V	230	230	230
Max power 230V, kVA	17,6	17,6	17,6
Nominal power 230V, kVA	16	16	16
Power factor, cosφ	1,0 (230 V)	1,0 (230 V)	1,0 (230 V)
Current, A (max)	76,52	76,52	76,52
Frequency, Hz	50	50	50
Insulation class	H	H	H
ENGINE CHARACTERISTICS			
Engine type	diesel powered four-cylinder, four-stroke water-cooled		
Engine brand	Xinchai	YangDong	Deutz
Engine model	C490BD	YSD490D	BFM3 G1
Engine speed, rpm	1500	1500	1500
Output power, kW	24	21	20
Engine cylinder volume cm ³	2600	2540	3170
Engine speed monitoring system	mechanical	electronic	electronic
Engine heating	+	+	+
GENERAL CHARACTERISTICS			
Controller	Datakom D300	Datakom D300	Datakom D300
Fuel tank volume, l	53	76	55
Fuel consumption at 50% of load*, l/h	3.59	3.7	3.3
Crankcase volume, l	5.5	7	5.5
Coolant volume, l	15	12	10
Noise level Lpa (7m)/Lwa, dB	72/97	72/97	72/97
Housing	noise - proof, moisture-proof, metal, all-weather, vandal-proof		
Housing coating	powder coating	powder coating	electroplating
Battery, Ah	85	85	85
Battery charger	built-in	built-in	built-in
ATS output	+	+	+
Power output controller	intelligent voltage stabilization system AVR		
Protection class	IP24		
Outlets	-	1x32A (230 V) 2x16A (230 V)	1x32A (230 V) 2x16A (230 V)
Net dimensions (LxWxH), mm	1850x740x1000	2160x950x1250	2160x950x1250
Gross dimensions (LxWxH), mm	1880x770x1020	2190x980x1270	2190x980x1270
Net weight, kg	732	975	852
Gross weight, kg	735	978	855

*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the power station.

Automatic transfer switch. The generator has the ability to connect the ATS system (automatic transfer switch).

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DIESEL POWER PLANTS HEAVY DUTY SERIES



Number of phases	three-phase		three-phase		three-phase		three-phase	
	230	400	230	400	230	400	230	400
Max power 400V, kVA	25,3		33		33		33	
Nominal power 400V, kVA	23		30		30		30	
Power factor, cosφ	1,0 (230 V)	0,8 (400 V)	1,0 (230 V)	0,8 (400 V)	1,0 (230 V)	0,8 (400 V)	1,0 (230 V)	0,8 (400 V)
Current, A (max)	36,45		47,63		47,63		47,63	
Frequency, Hz	50		50		50		50	
Insulation class	H		H		H		H	
ENGINE CHARACTERISTICS								
Engine type	diesel powered four-cylinder, four-stroke water-cooled							
Engine brand	Laidong		Xinchai		Yangdong		Deutz	
Engine model	DPKM490BD		A498BD		Y4100D		BFM3 G2	
Engine speed, rpm	1500		1500		1500		1500	
Output power, kW	23		32		32		29	
Engine cylinder volume cm ³	2545		3170		3170		3168	
Engine speed monitoring system	mechanical		mechanical		electronic		electronic	
Engine heating	+		+		+		+	
GENERAL CHARACTERISTICS								
Controller	Datakom D300		Datakom D300		Datakom D300		Datakom D300	
Fuel tank volume, l	57		75		75		57	
Fuel consumption at 50% of load*, l/h	4.1		4.9		5.1		3.7	
Crankcase volume, l	5,5		5,5		8		5,5	
Coolant volume, l	10		15		14		10	
Noise level Lpa (7m)/Lwa, dB	72/97		72/97		72/97		72/97	
Housing	noise - proof, moisture-proof, metal, all-weather, vandal-proof							
Housing coating	powder coating		powder coating		powder coating		electroplating	
Battery, Ah	85		85		2 x 85		85	
Battery charger	built-in		built-in		built-in		built-in	
ATS output	+		+		+		+	
Power output controller	intelligent voltage stabilization system AVR							
Protection class	IP24							
Outlets	-		-		1x32A (400 V) 1x16A (400 V) 1x16A (230 V)		1x32A (400 V) 1x16A (400 V) 1x16A (230 V)	
Net dimensions (LxWxH), mm	1700x780x1000		1850x780x1000		2160x950x1250		2160x950x1250	
Gross dimensions (LxWxH), mm	1730x810x1020		1880x810x1020		2190x980x1270		2190x980x1270	
Net weight, kg	680		739		978		856	
Gross weight, kg	683		742		981		859	

*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the power station.



Water cooling. The main advantage of the engine water cooling is the efficient removal of more heat, which helps to extend the service life power plant.

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