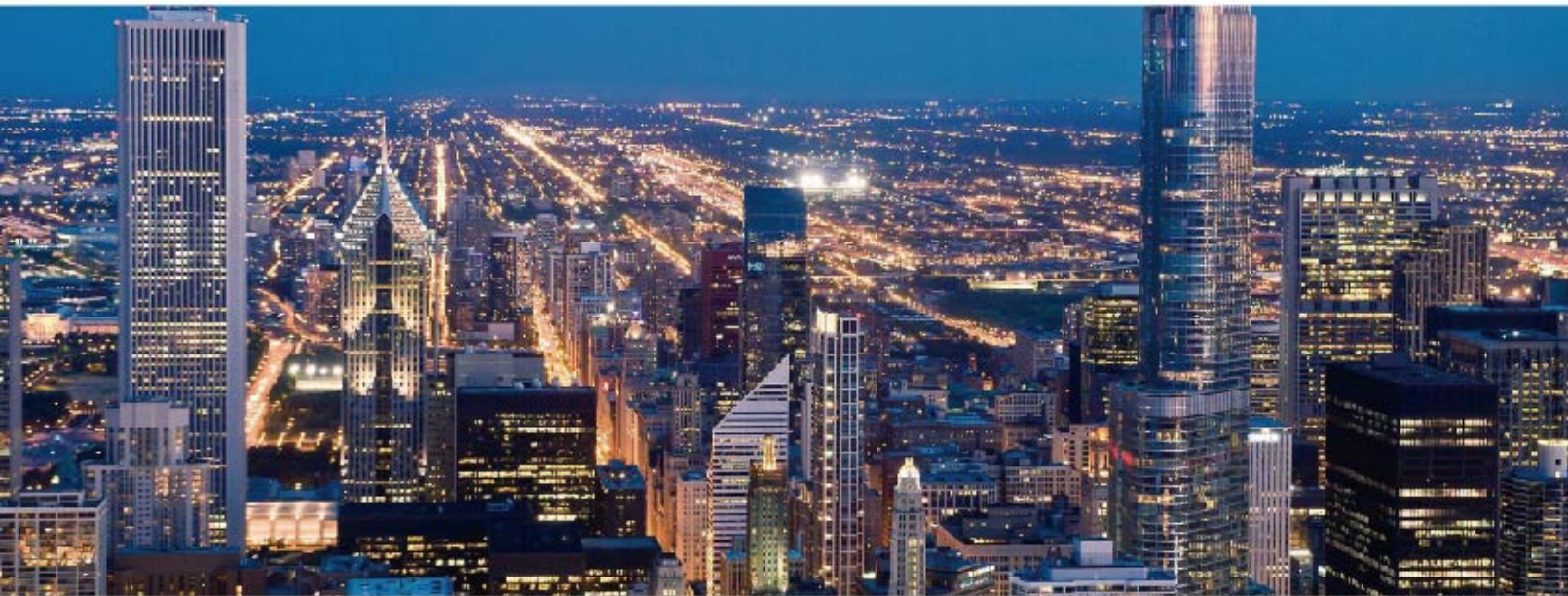


KOOP, Your Best Power Solution!



\* All datas are only for reference, actual configuration please refer to real product.



## Product Catalogue

- » Diesel Engine
- » Open Frame Diesel Generator
- » Silent Diesel Generator
- » Diesel Welding Generator
- » Diesel Water Pump
- » Super Silent Generator

**KOOP®**



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# CONTENT

01-02

Company Profile

03-04

Advanced Production Line

Test Equipment  
Enterprise Honor

05-12

Diesel Engine

1-Cylinder Series  
2-Cylinder Series

13-18

Open Frame Diesel Generator

1-Cylinder Series  
2-Cylinder Series

19-22

Silent Diesel Generator

1-Cylinder Series  
2-Cylinder Series

23-26

Diesel Welding Generator

1-Cylinder Series

27-32

Diesel Water Pump

General Water Pump  
High-pressure Water Pump  
Cast-iron Water Pump

33-36

Super Silent Generator





**KOOP**<sup>®</sup>

## Company Profile»

KOOP is an enterprise specialized in the research and manufacture of small power engine and standby power system. The core team is grouped by reputable technical experts in the industry and meritocracy, who have the remarkable design capability and rich engineering experience in internal combustion engine, electrical and electric field. Through unremitting efforts, KOOP has become the professional leading supplier of small power engine and mobile power industry in China.

KOOP was founded in August, 2007, a joint-stock private technology enterprise. Located in Wujin Economic Development zone, surrounded by beautiful landscaping and gardens with convenient traffic and high-speed hub, KOOP covers an area of 50,000 square meters and an architectural area of 26,000 square meters. It owns 6 automatic flexible production lines and the testing center equipped with professional detection device for metallic phase, tension, fuel injector, fuel injector pump, camshaft, gear, cylinder airway etc. Exports account for 70% of the company's main business income, and the market throughout the world, mainly in America, Africa, and Southeast Asia etc. KOOP export amount was more than 31.2 million US dollar since 2013.

As a provincial high-tech enterprise, KOOP has persisted in leaping company forward with technology innovation and strengthening company development through scientific management. Over these years, it has been focused on developing core R&D resources and researching engine and power technology, obtaining 28 technology patents and supplying the demands of reliable power engine and high quality electrical energy. And KOOP products meet the standard of CE, EPA, ISO9001, and TS16949. KOOP awarded "Provincial hi-tech enterprise" in 2012, many products awarded "hi-tech product", which make KOOP become member of engineering technology center and council member of agricultural machinery distribution association of Changzhou city.

KOOP always insists that "quality is the only foundation to win the market". Every product is manufactured according to the standard of "zero defect". The company has established quality control system with ISO9001 and TS16949 standard and strictly carried out the system. The excellent quality and service have won world-wide reputation.

R&D ability is the core competitive strength of the company, the R&D term continuously enriches product line and now has a variety product range of single, double cylinder air-cooled engines, gasoline engines, mobile portable power sets, pumping sets and garden machineries etc. Especially, KOOP took the lead in development and production of vertical two-cylinder diesel engine like KD292F, KD2V80, and KD2V86, which has won wide attention in the industry.

KOOP always remembers the social responsibility imposed on the company, it initiated the enterprise mission of "sharing the happiness of company growth with KOOP employees, customers and suppliers"; created the corporate culture of "being the brand of the new owner with company and actualize our own personal worth" and the service concept of "being the expert in power and providing excellent service". In the future, KOOP will certainly be dedicated to developing itself into becoming the best engine power supplier in China and offering best products and service for global customers.



# KOOP takes care of quality control as life. Each product is manufactured by heart.

KOOP follows strictly to ISO9001 and TS16949 quality standard.

Raw material analysis with analytical instruments.

Equipped with automatic assembly production line

Product air tightness and performance online test through intelligent equipment.

Create a staff keep improving working environment.

Make sure high quality of each product before shipping.

## Advanced Production Line »



## Test Equipment »



## Enterprise Honor »





# DIESEL ENGINE

Your requirement is our direction of research and development.  
KOOP will do all best to make your dream come true.

# KD

## DIESEL ENGINE

KOOP technical team always follow the step of oversea advanced engine technology, has designed excellent fuel injection system with skilled craftsmanship and strict quality concept, which makes KOOP engine strong output, safe and reliable. This high-performance fuel injection system ensures high efficiency running, lower fuel consumption and emission, also much lower the noise level.

**KOOP**



# KD ADVANTAGE

## Patented product, excellent performance

The product has won numbers of patents, covering multiple aspects of performance, with the characteristic of low fuel consumption, high power output and low noise etc.

## Aim to high-end market, high quality components

KOOP products aim to high-end diesel engine market, all key components are purchased from brand suppliers, to make sure high quality from raw materials.

## Light weight, compact construction

New generation of small diesel engines, with more reasonable design, more output at same volume, meet multiple applications.

## Process innovation, long service life

Continuous innovation in the details of production process, improvement in the process of assembling, relevant spare parts running in good, high mechanical strength, running smoothly, little vibration, long service life.

## Easy maintenance, low operation cost

Easy lead to engine makes easy maintenance, high combustion ratio, low fuel consumption, large torque, strong power and low operation cost.

### APPLICATION AREA



1 Agriculture Machine



2 Outdoor Project



3 Emergency Power Supply



4 Standby Usage



5 Vessel and Car

### Low fuel consumption

With new tip-clearance fuel pump and bottom inertia injection technology, combine new type combustor and high burning rate, its fuel economy is much lower than gasoline engines.

### Strong power

Large reserves of torque, strong power, supper overload capacity.

### Low noise

Well-designed gear transmission structure, make the vibration decreased and noise lowed, patented air cleaner, lower the noise of air inlet and outlet.

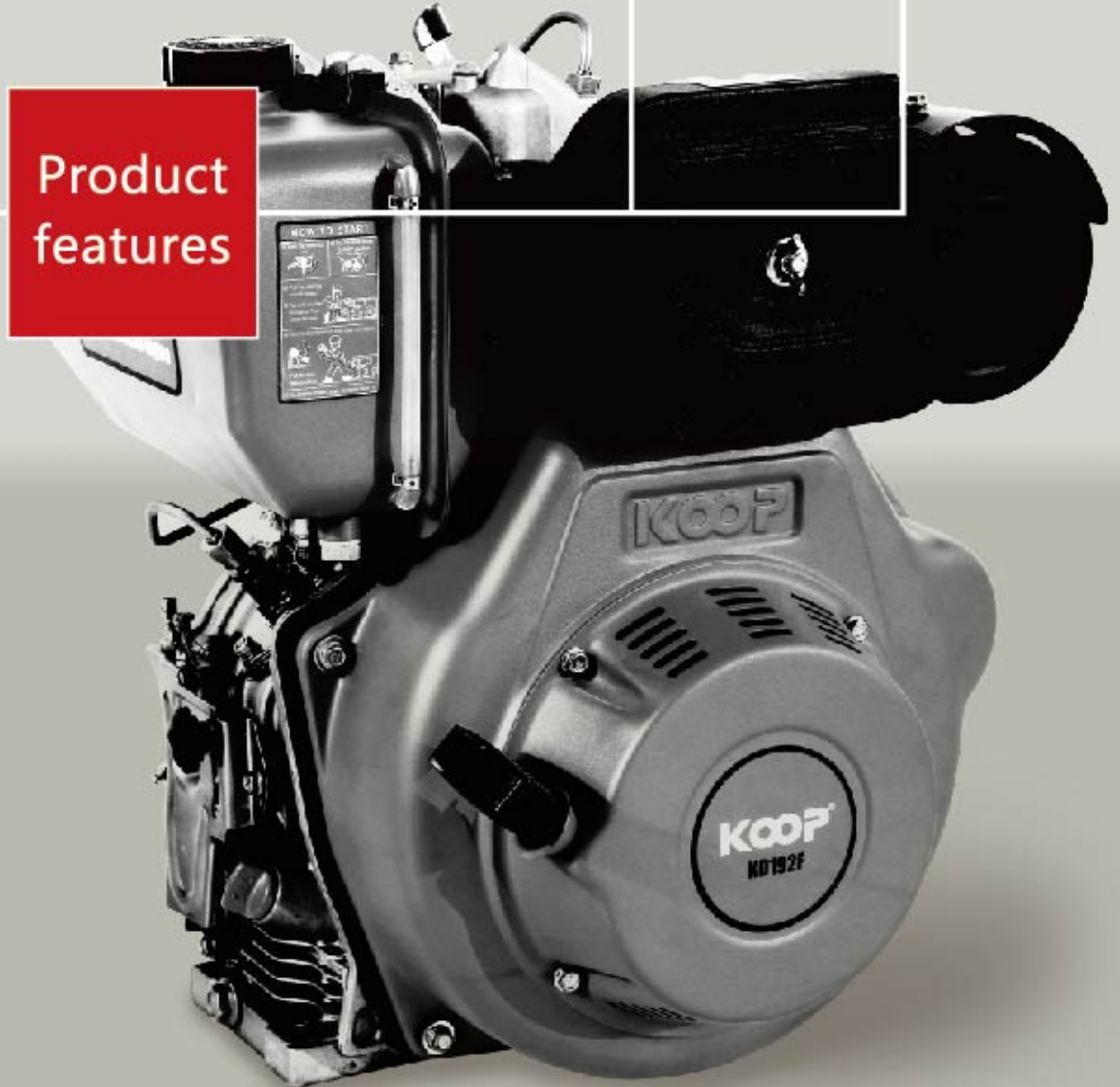
### Safe and reliable

Excellent production process, strict QC system to make sure the products safe and reliable.

### Wide application area

Various kinds of output forms are optional.

## Product features



# TECHNICAL DATA



\* Italian type starter handle



\* Oil-bathed air filter



\* General starter handle



\* General air filter

## 1-Cylinder Series

Model	KD170F/FE		KD178F/FE		KD186FA/FAE	
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical	
Combustion System	Direct injection		Direct injection		Direct injection	
Bore*Stroke [mm]	70*55		78*62		86*72	
Displacement [L]	0.211		0.296		0.418	
Compression Ratio	20 : 1		20 : 1		19.5 : 1	
Rated Speed [rpm]	3000	3600	3000	3600	3000	3600
Rated Power [kW]	2.5	2.8	3.7	4.0	5.8	6.6
Rated Power [hp]	3.4	3.8	5.0	5.4	7.9	9.0
Starting System	F: Recoil start		F: Recoil start		FA: Recoil start	
	FE: Electric start		FE: Electric start		FAE: Electric start	
Fuel Tank Capacity [L]	2.5		3.5		5.5	
Lube Oil Capacity [L]	0.75		1.10		1.65	
Fuel Consumption [g/kWh]	275	280	275	280	275	280
Fuel Type	0#(summer), -10#(winter) Diesel oil		0#(summer), -10#(winter) Diesel oil		0#(summer), -10#(winter) Diesel oil	
Lube Type	SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)	
Overall Dimension [mm][L*W*H]	335*380*415		383*421*450		417*441*494	
N.W [kg]	F: 27		F: 33		FA: 48	
	FE: 31		FE: 38		FAE: 53	
Rotation Direction (View from Flywheel)	Clockwise		Clockwise		Clockwise	

## 1-Cylinder Series

Model	KD188FA/FAE		KD192F/FE	
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical	
Combustion System	Direct injection		Direct injection	
Bore*Stroke [mm]	88*75		92*75	
Displacement [L]	0.456		0.499	
Compression Ratio	19.5 : 1		19.5 : 1	
Rated Speed [rpm]	3000	3600	3000	3600
Rated Power [kW]	6.6	6.9	7.6	8.6
Rated Power [hp]	9.0	9.4	10.3	11.7
Starting System	FA: Recoil start		F: Recoil start	
	FAE: Electric start		FE: Electric start	
Fuel Tank Capacity [L]	5.5		5.5	
Lube Oil Capacity [L]	1.65		1.65	
Fuel Consumption [g/kWh]	275	280	275	280
Fuel Type	0#(summer), -10#(winter) Diesel oil		0#(summer), -10#(winter) Diesel oil	
Lube Type	SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)	
Overall Dimension [mm][L*W*H]	417*441*494		417*441*494	
N.W [kg]	FA: 48		F: 50	
	FAE: 53		FE: 55	
Rotation Direction (View from Flywheel)	Clockwise		Clockwise	



# TECHNICAL DATA

## High output

Two-cylinder design, compact construction, large displacement, high output.

## Low noise

Well-designed gear transmission structure, makes the vibration decreased and noise lowered; patented air filter, lowers the noise of air inlet and outlet.

## Easy start

Multihole injection coupled with gear motor, starts easily and reliable.

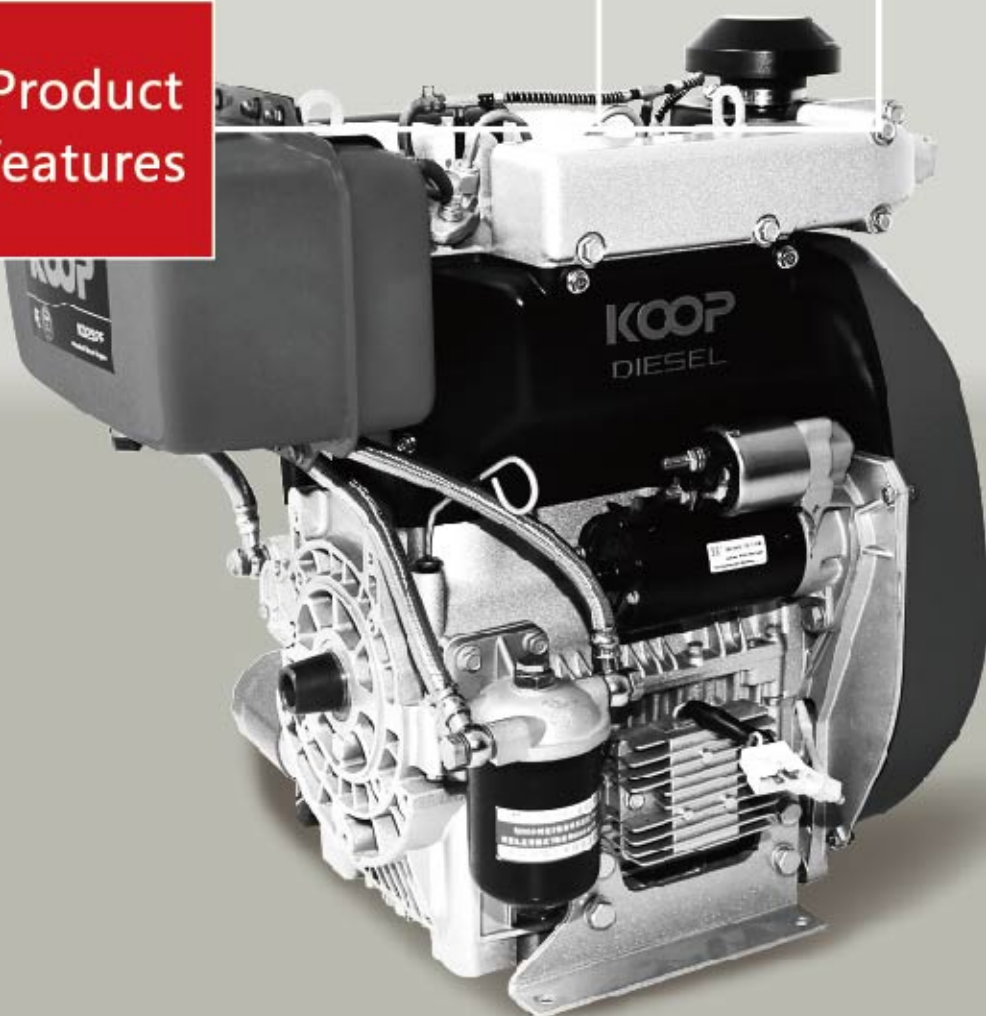
## Safe and reliable

Excellent production process, strict QC system to make sure the products safe and reliable.

## Wide application area

Various kinds of output forms are optional.

## Product features



\* Water-cooled Type



\* Air-cooled Type

## 2-Cylinder Series

Model	KD2V80	KD292F
Engine Type	V Type, 2-Cylinder, 4-Stroke, Water-cooled	Vertical, 2-Cylinder, 4-Stroke, Air-cooled
Bore*Stroke [mm]	80*79	92*75
Displacement [L]	0.794	0.997
Compressed Ratio	23 : 1	19 : 1
Rated Speed [rpm]	3000    3600	3000    3600
Rated Power [kW]	12.0    14.0	14.0    15.0
Rated Power [hp]	16.3    19.0	19.0    20.4
Starting System	Electric star	Electric star
Lube Oil Capacity [L]	2.30	2.75
Fuel Type	0#(summer), -10#(winter) diesel oil	0#(summer), -10#(winter) diesel oil
Lube Type	SAE10W30 (CF grade or above)	SAE10W30 (CF grade or above)
Power-take-off	Crankshaft	Crankshaft
Overall Dimension [mm][L*W*H]	616*486*528	582*462*582
Net Weight [kg]	58	78



# OPEN FRAME DIESEL GENERATOR

KOOP R&D team never stops and strives to innovation to meet your personalized requirement.

# KDF

## OPEN FRAME DIESEL GENERATOR

As emergency power, it can help to solve power failure rapidly.

Light, 4-wheels is the best choice for outdoor working.

### High conversion rate

100% copper alternator, class F insulation, high conversion rate.

### Stable output

Smart AVR controller ensures stable voltage and less voltage waveform distortion.

### Digital panel

Digital intelligent control panel with display of voltage, frequency and running time, makes easy maintenance.

### Easy carrying

An open frame configuration means it's easy to move and use.

### Wide application

Various output sockets are available to meet all customers' requirements.

Product features





# TECHNICAL DATA



\* Round tube frame without wheel



\* Round tube frame with 4 wheels

## 1-Cylinder Series

Model	KDF2500X/XE		KDF4000X/XE		KDF6700X/XE(-3)	
Rated Frequency [Hz]	50	60	50	60	50	60
Rated Voltage [V]	220,230,240,110/220,115/230,120/240		220,230,240,110/220,115/230,120/240		220,230,240,110/220,127/220,115/230,120/240,220/380,230/400,240/415	
Rated Output Power [kVA]	1.8	2.0	2.6	2.8	4.5(5.6)	5.0(6.3)
Max Output Power [kVA]	2.0	2.2	2.8	3.0	5.0(6.3)	5.5(6.9)
Phase Number	1-Phase		1-Phase		1-Phase / 3-Phase	
Excitation Transistorized	Self-excitation, brush		Self-excitation, brush		Self-excitation, brush	
Power Factor Cos $\Phi$	1.0		1.0		1.0(0.8)	
Insulation Grade	F		F		F	
Fuel Tank Capacity [L]	12.5		12.5		12.5	
Frame Type	25*25mm Round tube frame		25*25mm Round tube frame		35*35mm Square tube frame	
Engine Model	X: KD170F		X: KD178F		X: KD186FA	
	XE: KD170FE		XE: KD178FE		XE: KD186FAE	
Starting System	X: Recoil start; XE: Electric start		X: Recoil start; XE: Electric start		X: Recoil start; XE: Electric start	
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical	
Bore*Stroke [mm]	70*55		78*62		86*72	
Displacement [L]	0.211		0.296		0.418	
Compression Ratio	20 : 1		20 : 1		19.5 : 1	
Rated Rotation Speed [rpm]	3000	3600	3000	3600	3000	3600
Rated Power [kW]	2.5	2.8	3.7	4.0	5.8	6.6
Lube Oil Capacity [L]	0.75		1.10		1.65	
Fuel Consumption [g/kWh]	275	280	275	280	275	280
Fuel Type	0#(summer), -10#(winter), Diesel oil		0#(summer), -10#(winter), Diesel oil		0#(summer), -10#(winter), Diesel oil	
Lube Type	SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)	
Optional Standard	ATS		ATS		ATS	
	Remote control		Remote control		Remote control	
	Digital Smart Panel		Digital Smart Panel		Digital Smart Panel	
	Wheel and handle		Wheel and handle		Wheel and handle	
Overall Dimension [mm][L*W*H]	640*460*520		660*460*540		740*505*630	
Net Weight [kg]	X: 48	XE: 63	X: 63	XE: 72	X: 99	XE: 113



\* Square tube framed with wheels & handles



\* Semi-closed canopy

## 1-Cylinder Series

Model	KDF7500X/XE(-3)		KDF8500X/XE(-3)	
Rated Frequency [Hz]	50	60	50	60
Rated Voltage [V]	220,230,240,110/220,127/220,115/230,120/240,220/380,230/400,240/415		220,230,240,110/220,127/220,115/230,120/240,220/380,230/400,240/415	
Rated Output Power [kVA]	5.0(6.3)	5.5(6.9)	6.0(7.5)	6.5(8.1)
Max Output Power [kVA]	5.5(6.9)	6.0(7.5)	6.5(8.1)	7.0(8.8)
Phase Number	1-Phase / 3-Phase		1-Phase / 3-Phase	
Excitation Transistorized	Self-excitation, brush		Self-excitation, brush	
Power Factor Cos $\Phi$	1.0(0.8)		1.0(0.8)	
Insulation Grade	F		F	
Fuel Tank Capacity [L]	12.5		12.5	
Frame Type	35*35mm Square tube frame		35*35mm Square tube frame	
Engine Model	X: KD188FA		X: KD192F	
	XE: KD188FAE		XE: KD192FE	
Starting System	X: Recoil start; XE: Electric start		X: Recoil start; XE: Electric start	
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical	
Bore*Stroke [mm]	88*75		92*75	
Displacement [L]	0.456		0.499	
Compression Ratio	19.5 : 1		19.5 : 1	
Rated Rotation Speed [rpm]	3000	3600	3000	3600
Rated Power [kW]	6.6	6.9	7.6	8.6
Lube Oil Capacity [L]	1.65		1.65	
Fuel Consumption [g/kWh]	275	280	275	280
Fuel Type	0#(summer), -10#(winter), Diesel oil		0#(summer), -10#(winter), Diesel oil	
Lube Type	SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)	
Optional Standard	ATS		ATS	
	Remote control		Remote control	
	Digital Smart Panel		Digital Smart Panel	
	Wheel and handle		Wheel and handle	
Overall Dimension [mm][L*W*H]	740*505*630		740*505*630	
Net Weight [kg]	X: 100	XE: 114	X: 107	XE: 124



# TECHNICAL DATA



## 2-Cylinder Series

Model	KDF12000XE(-3)		KDF16000XE(-3)	
Frequency [Hz]	50	60	50	60
Voltage [V]	220,230,240,110/220,127/220,115/230,120/240,220/380,230/400,240/415		220,230,240,110/220,127/220,115/230,120/240,220/380,230/400,240/415	
Rated Power [kVA]	9.0(11.0)	9.5(11.5)	11.0(13.75)	12.0(15.0)
Max. Power [kVA]	10.0(12.0)	10.5(12.5)	12.0(15.0)	13.0(16.0)
Phase Number	1-Phase / 3-Phase		1-Phase / 3-Phase	
Excitation Transistorized	Self-excitation, brush		Self-excitation, brush	
Power Factor Cos $\Phi$	1.0(0.8)		1.0(0.8)	
Insulation Grade	F		F	
Fuel Capacity [L]	34		34	
Frame Type	35*35mm Round tube frame		35*35mm Round tube frame	
Engine Model	KD2V80		KD292F	
Starting System	Electric start		Electric start	
Engine Type	2-Cylinder, 4-Stroke, Water-cooled, V Type		2-Cylinder, 4-Stroke, Air-cooled, Vertical	
Bore*Stroke [mm]	2-80*79		2-92*75	
Displacement [L]	0.794		0.997	
Compression Ratio	23 : 1		19 : 1	
Rated Rotation Speed [rpm]	3000	3600	3000	3600
Rated Power [kW]	12.0	14.0	14.0	15.0
Lube Oil Capacity [L]	2.30		2.75	
Fuel Type	0#(summer), -10#(winter) diesel oil		0#(summer), -10#(winter) diesel oil	
Lube Type	SAE10W30 (CF grade or above)		SAE10W30 (CF grade or above)	
Overall Dimension [mm][L*W*H]	1060*660*880		930*660*910	
Net Weight [kg]	220		230	

# SOCKET & PANEL SERIES

Code	Description	Specification	Picture	Panel
S01	S.Socket	25A, 250V		 A-type-Export standard
S02	British socket	32A, 240V		
S03	British socket	16A, 240V		 B-type-U.S.A standard
S04	Square American type-socket	20A, 120A		
S05	Germany socket	16A, 250V		 C-type-European standard
S06	Three-phase five holes socket	16A, 415V		
S07	French socket	16A, 250V		 D-type-Australia standard
S08	Three phase four holes socket	16A, 215V		
S09	American type 4-hole anti loose socket	30A, 250V		 Three phase panel
S10	American double socket	20A, 125V		
S11	3-hole anti loose socket (UL-authentication optional)	30A, 250V		
S12	Australian socket	16A, 250V		
S13	Swiss socket	10A, 250V		



# SILENT DIESEL GENERATOR

KOOP R&D team never stops and strives to innovation to meet your personalized requirement.

# KDF

## SILENT DIESEL GENERATOR

With two-stage muffler device, new air flue design, excellent sound-absorbing material, to make sure the generator less noise, which is widely used at homes and shops as standby power. Also it can be controlled by remoter, ATS and overload protection, provides you high quality life.

### Two-stage muffler device

Scientific damping effect, patent two-stage muffler silencer, advanced air-flue design and muffler device.

### Strong power

With KOOP four-stroke diesel engine, new tip-clearance fuel pump and bottom inertia injection technology, makes burning full and power strong.

### High conversion efficiency

100% copper alternator, class F insulation, high conversion efficiency, smart AVR controller ensures stable voltage and less voltage waveform distortion.

### Preheating device

With air-preheating device, it can be easily started at low temperature.

### Optional items

Remoter: control anytime anywhere freely.  
ATS: automatic transfer from city power and gen-set power. Intelligent digital control panel: with overload, over voltage, over current and low oil pressure protection function.

Product features





# TECHNICAL DATA



\* General canopy



\* Tall canopy

## 1-Cylinder Series

Model	KDF6700Q(-3)		KDF7500Q(-3)		KDF8500Q(-3)	
Rated Frequency [Hz]	50	60	50	60	50	60
Rated Voltage [V]	220,230,240,110/220,127/220,115/230,120/240,220/380,230/400,240/415					
Rated Output Power [kVA]	4.5 (5.6)	5.0(6.3)	5.0(6.3)	5.5(6.9)	6.0(7.5)	6.5(8.1)
Max Output Power [kVA]	5.0(6.3)	5.5(6.9)	5.5(6.9)	6.0(7.5)	6.5(8.1)	7.0(8.8)
DC Output	12V 8.3A		12V 8.3A		12V 8.3A	
Phase Number	1-Phase / 3-Phase		1-Phase / 3-Phase		1-Phase / 3-Phase	
Excitation Mode	Self-excitation, brush		Self-excitation, brush		Self-excitation, brush	
Power Factor $\cos \Phi$	1.0(0.8)		1.0(0.8)		1.0(0.8)	
Insulation Grade	F		F		F	
Fuel Tank Capacity [L]	14.5		14.5		30.0	
Engine Model	KD186FAE		KD188FAE		KD192FE	
Starting System	Electric start		Electric start		Electric start	
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical	
Bore*Stroke [mm]	86*72		88*75		92*75	
Displacement [L]	0.418		0.456		0.499	
Compression Ratio	19.5 : 1		19.5 : 1		19.5 : 1	
Rated Rotation Speed [rpm]	3000	3600	3000	3600	3000	3600
Rated Power [kW]	5.8	6.6	6.6	6.9	7.6	8.6
Lube Oil Capacity [L]	1.65		1.65		1.65	
Fuel Type	0#(summer), -10#(winter), diesel oil		0#(summer), -10#(winter), diesel oil		0#(summer), -10#(winter), diesel oil	
Lube Type	SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)	
Low Oil Pressure Alarm System	With		With		With	
Optional Standard	ATS		ATS		ATS	
	Remote control		Remote control		Remote control	
	Digital Smart Panel		Digital Smart Panel		Digital Smart Panel	
Overall Dimension [mm][L*W*H]	910*530*740		910*530*740		910*530*840	
Net Weight [kg]	149		151		171	



## 2-Cylinder Series

Model	KDF12000Q(-3)		KDF16000Q(-3)	
Frequency [Hz]	50	60	50	60
Voltage [V]	220,230,240,110/220,127/220,115/230,120/240,220/380,230/400,240/415			
Rated Power [kVA]	9.0(11.0)	9.5(11.5)	11.0(13.8)	12.0(15.0)
Max. Power [kVA]	10.0(12.0)	10.5(12.5)	12.0(15.0)	13.0(16.0)
Phase Number	1-Phase / 3-Phase		1-Phase / 3-Phase	
Excitation Transistorized	Self-excitation, brush		Self-excitation, brush	
Power Factor $\cos \Phi$	1.0(0.8)		1.0(0.8)	
Insulation Grade	F		F	
Fuel Capacity [L]	26		26	
Noise Level [Db](@7m)	70		75	
Engine Model	KD2V80		KD292F	
Engine Type	2-Cylinder, 4-Stroke, Water-cooled, V Type		2-Cylinder, 4-Stroke, Air-cooled, Vertical	
Starting System	Electric start		Electric start	
Bore*Stroke [mm]	2-80*79		2-92*75	
Displacement [L]	0.794		0.997	
Compression Ratio	23 : 1		19 : 1	
Rated Rotation Speed [rpm]	3000	3600	3000	3600
Rated Power [kW]	12.0	14.0	14.0	15.0
Lube Oil Capacity [L]	2.30		2.75	
Fuel Type	0#(summer), -10#(winter) diesel oil		0#(summer), -10#(winter) diesel oil	
Lube Type	SAE10W30 (CF grade or above)		SAE10W30 (CF grade or above)	
Overall Dimension [mm][L*W*H]	1200*650*890		1250*650*890	
Net Weight [kg]	310		320	



# DIESEL WELDING GENERATOR

Your requirement is our direction of research and development. KOOP will do all best to make your dream come true.



# KDF

## DIESEL WELDING GENERATOR

KOOP has designed the third generation super big diesel welding generator sets. With KOOP self-designed KD192F engine, can make continuous welding current over 220A, which achieves higher welding efficiency and more scope of application. Now KOOP is developing the king of welding generator with 2-cylinder engine, which welding current can be 300A.

**KOOP**



# TECHNICAL DATA



## One unit, dual function

Welding and power supply at the same time.

## Supper welding

With KOOP strong air-cooled 4-stroke diesel engine, provides supper welding current.

## High conversion efficiency

100% copper alternator, class F insulation, high conversion efficiency, smart AVR controller ensures stable voltage and less voltage waveform distortion.

## Safe and low fuel consumption

With new tip-clearance fuel pump and bottom inertia injection technology, security is better than that of gasoline.

## Portable design

New design of frame, compact structure, four strong wheels, easy to move.

## Product features



## 1-Cylinder Series

Model	KDF6700WE		KDF8500WE	
Rated Frequency [Hz]	50	60	50	60
Rated Voltage [V]	220,230,240,110/220,115/230,120/240		220,230,240,110/220,115/230,120/240	
Rated Output Power [kVA]	2.0	2.2	2.0	2.2
Welding Voltage Without Load [V]	50~65		50~65	
Rated Current [A]	160		200	
Work Voltage[V]	25~30		25~30	
Current Regulation Range [A]	50~180		70~220	
Welding Load Continuous Ration	60%		60%	
Phase Number	1-Phase		1-Phase	
Excitation Transistorized	Self-excitation, brush		Self-excitation, brush	
Power Factor $\Phi$	1.0		1.0	
Insulation Grade	F		F	
Fuel Tank Capacity [L]	12.5		12.5	
Frame Type	35*35mm Square tube frame		35*35mm Square tube frame	
Engine Model	KD186FAE		KD192FE	
Starting System	Electric start		Electric start	
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical	
Bore*Stroke [mm]	86*72		92*75	
Displacement	0.418		0.499	
Compression Ratio	19.5 : 1		19.5 : 1	
Ration Rotation Speed [rpm]	3000	3600	3000	3600
Rated Power [kW]	5.8	6.6	7.6	8.6
Power-take-off	Crankshaft		Crankshaft	
Lube Oil Capacity [L]	1.65		1.65	
Fuel Type	0#(summer), -10#(winter), Diesel oil		0#(summer), -10#(winter), Diesel oil	
Lube Type	SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)	
Low Oil Pressure Alarm System	With		With	
Overall Diemension [mm][L*W*H]	750*515*640		750*515*640	
Net Weight [kg]	116		127	



# DIESEL WATER PUMP

Your requirement is our direction of research and development. KOOP will do all best to make your dream come true.

# KDP

## DIESEL WATER PUMP

Supper suction capacity, with big flow, compact design, easy to move, widely used in agricultural irrigation, fishery, flood-fighting and emergency rescues, construction site, tunnels, etc. Self-suction pump, high pressure pump and iron pump to choose, can meet various requirements.

### Low Fuel consumption

With KOOP strong air-cooled diesel engine, make sure low fuel consumption.

### Portable design

New light weight and compact design make it easy and safe to move.

### Convenient Maintenance

Aluminum self-priming pump, maintenance free; open design, easy leads to the engine.

### Reliable and durable

Safe and reliable engine with enhanced pump cover structure assure the pump durable service.

### Head high and less self-priming time

Strong engine and vortex impeller design, good sealing, greatly promote head of delivery, and less self-priming time.

Product features



**KOOP**



# TECHNICAL DATA



## General Water Pump

Model	KDP50B/BE/L/LE	KDP80B/BE/L/LE	KDP100B/BE/L/LE
Suction / Discharge Port Diameter [mm]	50 (2")	80(3")	100 (4")
Cont. Capacity [m³/h]	22	35	40
Cont. Head [M]	15	17	19
Self-priming Time [s/4m]	70	120	180
Max.Suction Head [M]	7.0	7.0	7.0
Fuel Tank Capacity [L]	B: small fuel tank (2.5L)	B: small fuel tank (3.5L)	B: small fuel tank (5.5L)
	L: large fuel tank (12.5L)	L: large fuel tank (12.5L)	L: large fuel tank (12.5L)
Engine Type	KD170F/FE	KD178F/FE	KD186FA/FAE
Starting System	F: Recoil start	F: Recoil start	FA: Recoil start
	FE: Electric start	FE: Electric start	FAE: Electric start
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical	1-Cylinder, 4-Stroke, Air-cooled, Vertical	1-Cylinder, 4-Stroke, Air-cooled, Vertical
Bore*Stroke [mm]	70*55	78*62	86*72
Displacement [L]	0.211	0.296	0.418
Compression Ratio	20 : 1	20 : 1	19.5 : 1
Rated Rotation Speed [rpm]	3600	3600	3600
Rated Power [kW]	2.8	4.0	6.6
Lube Oil Capacity [L]	0.75	1.10	1.65
Fuel Type	0#(summer), -10#(winter) Diesel oil	0#(summer), -10#(winter) Diesel oil	0#(summer), -10#(winter) Diesel oil
Lube Type	SAE10W30 (CD grade or above)	SAE10W30 (CD grade or above)	SAE10W30 (CD grade or above)
Overall Dimension [mm][L*W*H]	490*410*520	560*455*550	650*470*700
N.W [kg]	41	49	69



## High Pressure Water Pump

Model	KDP40HB/HBE/HL/HLE	KDP50HB/HBE/HL/HLE
Suction / Discharge Port Diameter [mm]	40 (1.5")	50 (2")
Cont. Capacity [m³/h]	12	18
Cont. Head [M]	42	45
Self-priming Time [s/4m]	120	180
Max.Suction Head [M]	6.0	6.0
Fuel Tank Capacity [L]	B: small fuel tank (5.5L)	B: small fuel tank (5.5L)
	L: large fuel tank (12.5L)	L: large fuel tank (12.5L)
Engine Type	KD178F/FE	KD186FA/FAE
Starting System	F: Recoil start	FA: Recoil start
	FE: Electric start	FAE: Electric start
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical	1-Cylinder, 4-Stroke, Air-cooled, Vertical
Bore*Stroke [mm]	78*62	86*72
Displacement [L]	0.296	0.418
Compression Ratio	20 : 1	19.5 : 1
Rated Rotation Speed [rpm]	3600	3600
Rated Power [kW]	4.0	6.6
Lube Oil Capacity [L]	1.10	1.65
Fuel Type	0#(summer), -10#(winter) Diesel oil	0#(summer), -10#(winter) Diesel oil
Lube Type	SAE10W30 (CD grade or above)	SAE10W30 (CD grade or above)
Overall Dimension [mm][L*W*H]	570*465*670	655*480*720
N.W [kg]	47	67



# TECHNICAL DATA



Cast-iron Water Pump

Model	KDP40CB/CBE/L/LE	KDP50/40CB/CBE/L/LE
Suction / Discharge Port Diameter [mm]	40(1.5")	50(2")*40(1.5")
Cont. Capacity [m³/h]	19	30
Cont. Head [M]	70	80
Self-priming Time [s/4m]	120	180
Max.Suction Head [M]	8.0	8.0
Fuel Tank Capacity [L]	B: small fuel tank (2.5L)	B: small fuel tank (3.5L)
	L: large fuel tank (12.5L)	L: large fuel tank (12.5L)
Engine Type	170F/FE	178F/FE
Starting System	F: Recoil start	F: Recoil start
	FE: Electric start	FE: Electric start
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical	1-Cylinder, 4-Stroke, Air-cooled, Vertical
Impeller Diameter [mm]	160	175
Bore*Stroke [mm]	70*55	78*62
Displacement [L]	0.211	0.296
Compression Ratio	20 : 1	20 : 1
Rated Rotation Speed [rpm]	3600	3600
Rated Power [kW]	2.8	4.0
Lube Oil Capacity [L]	0.75	1.10
Fuel Type	0#(summer), -10#(winter) Diesel oil	0#(summer), -10#(winter) Diesel oil
Lube Type	SAE10W30 (CD grade or above)	SAE10W30 (CD grade or above)
Overall Dimension [mm][L*W*H]	570*460*680	570*460*680
N.W [kg]	65	70



Cast-iron Water Pump

Model	KDP50CB/CBE/L/LE	KDP80CB/CBE/L/LE	KDP100/80CB/CBE/L/LE
Suction/Discharge Port Diameter [mm]	50(2")	50(2")	80(3")
Cont. Capacity [m³/h]	30	35	47
Cont. Head [M]	80	92	80
Self-priming Time [s/4m]	180	180	180
Max.Suction Head [M]	8.0	8.0	8.0
Fuel Tank Capacity [L]	B: small fuel tank (3.5L /5.5L)	B: small fuel tank (5.5L)	B: small fuel tank (5.5L)
	L: large fuel tank (12.5L)	L: large fuel tank (12.5L)	L: large fuel tank (12.5L)
Engine Type	178F/FE	186FA/FAE	188FA/FAE
Starting System	F: Recoil start	FA: Recoil start	FA: Recoil start
	FE: Electric start	FAE: Electric start	FAE: Electric start
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical	1-Cylinder, 4-Stroke, Air-cooled, Vertical	1-Cylinder, 4-Stroke, Air-cooled, Vertical
Impeller Diameter [mm]	175	198	208
Bore*Stroke [mm]	78*62	86*72	88*75
Displacement [L]	0.296	0.418	0.456
Compression Ratio	20 : 1	19.5 : 1	19.5 : 1
Rated Rotation Speed [rpm]	3600	3600	3600
Rated Power [kW]	4.0	6.6	6.9
Lube Oil Capacity [L]	1.10	1.65	1.65
Fuel Type	0#(summer), -10#(winter) Diesel oil	0#(summer), -10#(winter) Diesel oil	0#(summer), -10#(winter) Diesel oil
Lube Type	SAE10W30 (CD grade or above)	SAE10W30 (CD grade or above)	SAE10W30 (CD grade or above)
Overall Dimension [mm][L*W*H]	570*460*680	570*495*720	570*495*720
N.W [kg]	75	78	85



# SUPER SILENT GENERATOR

KOOP R&D team never stops and  
strives to innovation to meet your personalized requirement.

# KDF

## SUPER SILENT GENERATOR

New design supper silent generator, silent as the aim of research and design,  
emphasizes at product comfort to meet requirement of high-end users. The sound  
level achieves international leading level; which overturns traditional image of  
Chinese silent diesel generator.

**KOOP**



# TECHNICAL DATA



**Supper silent**

The sound level achieves international leading level; which overturns traditional image of Chinese silent diesel generator.

**Unique design**

New structure design, KOOP brand unique out-looking with red and black color.

**U-type air flue design**

With new U-type air flue design, all inlet and exhaust air go through it, achieves the effect of sound insulation.

**Super strong structure**

New design canopy with thicker base frame to enhance generator structural strength, meanwhile achieve the effect of sound insulation and vibration reduction.

**Smooth output**

100% copper alternator, class F insulation, high conversion efficiency, smart AVR controller ensures stable voltage and less voltage waveform distortion.

Product features



Model	KDF6700QQ(-3)		KDF8500QQ(-3)	
Rated Frequency [Hz]	50	60	50	60
Rated Voltage [V]	220,230,240,110/220,127/220,115/230,120/240,220/380,230/400,240/415		220,230,240,110/220,127/220,115/230,120/240,220/380,230/400,240/415	
Rated Output Power [kVA]	4.2(5.3)	4.5(5.6)	5.5(6.9)	6.0(7.5)
Max Output Power [kVA]	4.5(5.6)	5.0(6.3)	6.0(7.5)	6.5(8.1)
Phase Number	1-Phase / 3-Phase		1-Phase / 3-Phase	
Excitation Mode	Self-excitation, brush		Self-excitation, brush	
Power Factor $\Phi$	1.0(0.8)		1.0(0.8)	
Insulation Grade	F		F	
Fuel Tank Capacity [L]	14.5		14.5	
Noise Level [Db](@7m)	65	66	66	67
Engine Model	KD186FAE		KD192FE	
Starting System	Electric start		Electric start	
Engine Type	1-Cylinder, 4-Stroke, Air-cooled, Vertical		1-Cylinder, 4-Stroke, Air-cooled, Vertical	
Bore*Stroke [mm]	86*72		92*75	
Displacement [L]	0.418		0.499	
Compression Ratio	19.5 : 1		19.5 : 1	
Rated Rotation Speed [rpm]	3000	3600	3000	3600
Rated Power [kW]	5.8	6.6	7.6	8.6
Lube Oil Capacity [L]	1.65		1.65	
Fuel Type	0#(summer), -10#(winter) Diesel oil		0#(summer), -10#(winter) Diesel oil	
Lube Type	SAE10W30 (CD grade or above)		SAE10W30 (CD grade or above)	
Low Oil Pressure Alarm System	With		With	
Optional Standard	ATS		ATS	
	Remote control		Remote control	
Overall Dimension [mm][L*W*H]	995*645*890		995*645*890	
Net Weight [kg]	207		210	