



COVAX[®]
GLOBAL POWER EQUIPMENT



GENERAL CATALOGUE

DIESEL ENGINE, DIESEL WATER PUMP
PORTABLE GENERATOR, ULTRA SILENT
WELDING GENERATOR, LIGHT TOWER

GENERATORS

PORTABLE SERIES



Big or small, simple or complex,
any size or shape,
in any regulatory environment,
when you need power,
COVAX is equal to the challenge.
You can get the power you really need.

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DIESEL ENGINE

Engine is the flagship product of COVAX. Today there are three series engines general-purpose gasoline engine, general-purpose diesel engine and multi-cylinder diesel engine. Those engines are not only equipped to COVAX generator sets, but also directly sold to global market. Since the future emission standard demands, COVAX continues the improvement for the fuel and engine structures to reduce the impact on environment. Today, most of COVAX can meet EPA standard. "Green Engine" is the target of COVAX. Due to the requirements of climate protection and environmental protection, which have continually increased in recent years, the industry has now intensified the focus of its research and development divisions on making these engines not only more efficient, but also cleaner. Thus, clean air and the preservation of natural resources have become important objectives of our development work. The challenge is to be able to bring competitive products onto the market, while paying particular attention to the technical and economic framework conditions.



DIESEL ENGINE

As the world leader in mid-range diesel power, we put our heart into your machine. We are producing diesels which are reliable and economical for their users in view of total performance cost. Their advanced technology, well proven quality and minimum fuel consumption, low maintenance cost, very high performance as well as maximum reliability will certainly satisfy all your requirements.

1. Single - Cylinder

- Unique driving system
- Excellent injection technology
- Advanced noise-reduce design

2. Two - Cylinder

- Firm construction, light weight, improved stiffness and steadiness. Steady and reliable performance
- Voltage stabilization tank parts would decrease the inlet noise. The column gear driving is more compact, exact and reliable. Vertical shaft or horizontal shaft are optional.

3. Multi - Cylinder

- Good interconvertibility of parts
- Economic, reliable, durable
- Low fuel consumption

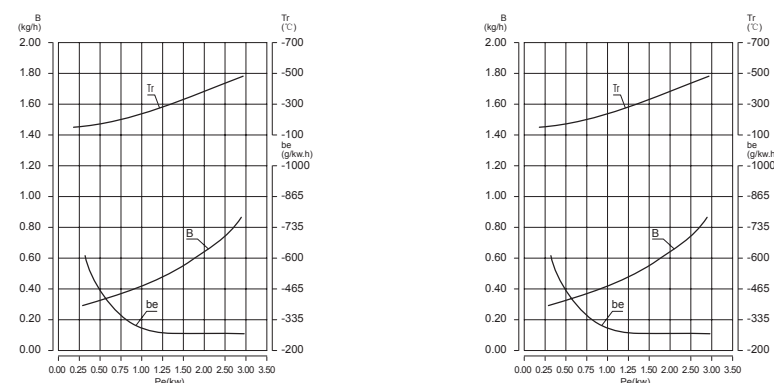
Gasoline Engine

As one of the leading manufacturer of engines, COVAX has earned its reputation for unsurpassed quality, performance and reliability. On the basic of the conventional acclaimed gasoline engines, we launched another three new models, which offers the high torque and fuel economy of a diesel together with extremely clean emissions to meet the demands of our customers through advanced engine technology, quality components and superior manufacturing capability throughout the world.

Technical Data

Model	KM170F	KM170FA
Type	Single-cylinder,vertical,air-cooled,four-stroke,direct injection	Single-cylinder,vertical,air-cooled,four-stroke,direct injection
Bore×Stroke (mm)	70×55	70×57
Displacement (L)	0.211	0.219
Compression ratio	20	20
Rated power/ Rated speed (kW/r/min)	2.5/3000, 2.8/3600	2.5/3000, 2.8/3600
Lowest rotation speed at zero load (r/min)	≤1300	≤1300
Lubricating system	Pressure splashed	Pressure splashed
Starting system	Recoil starter/Electric starter	Recoil starter/Electric starter
Rotation direction (face to the output axle)	Anticlockwise	Anticlockwise
Fuel type	0#,-10#,-20# diesel	0#,-10#,-20# diesel
Fuel tank capacity (L)	2.5	2.5
Fuel consumption/ Rotation speed (g/kW.h/r/min)	280.2/3000, 288.3/3600	280.2/3000, 288.3/3600
Lube oil type	CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40
Lube oil capacity (L)	0.75	0.75
Starting motor capacity (V, kW)	12V 0.8kW	12V 0.8kW
Charging generator capacity (V, A)	12V 3A	12V 3A
Battery capacity (V, Ah)	12V 24Ah-36Ah	12V 24Ah-36Ah
Overall dimension(L×W×H) (mm)	335X380X415	335X380X415
Dry weight (kg)	≤27	≤27

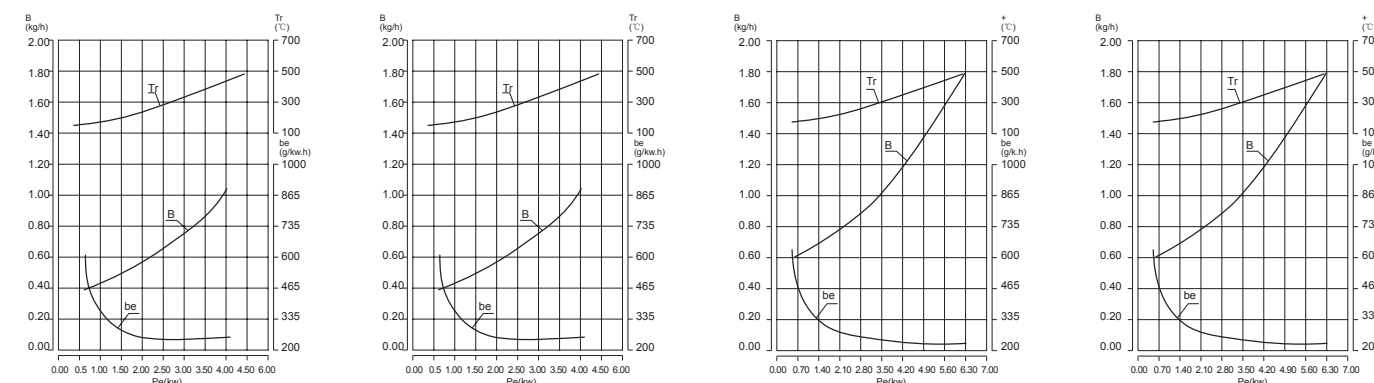
Performance Curve



Technical Data

Model	KM178F	KM178FA	KM186F	KM186FA
Type	Single-cylinder,vertical,air-cooled,four-stroke,direct injection	Single-cylinder,vertical,air-cooled,four-stroke,direct injection	Single-cylinder,vertical,air-cooled,four-stroke,direct injection	Single-cylinder,vertical,air-cooled,four-stroke,direct injection
Bore×Stroke (mm)	78×62	78×64	86×70	86×72
Displacement (L)	0.296	0.305	0.406	0.418
Compression ratio	20	20	19	19
Rated power/ Rated speed (kW/r/min)	3.68/3000, 4/3600	3.68/3000, 4/3600	5.7/3000, 6.3/3600	5.7/3000, 6.3/3600
Lowest rotation speed at zero load (r/min)	≤1300	≤1300	≤1300	≤1300
Lubricating system	Pressure splashed	Pressure splashed	Pressure splashed	Pressure splashed
Starting system	Recoil starter/Electric starter	Recoil starter/Electric starter	Recoil starter/Electric starter	Recoil starter/Electric starter
Rotation direction (face to the output axle)	Anticlockwise	Anticlockwise	Anticlockwise	Anticlockwise
Fuel type	0#,-10#,-20# diesel	0#,-10#,-20# diesel	0#,-10#,-20# diesel	0#,-10#,-20# diesel
Fuel tank capacity (L)	3.5	3.5	5.5	5.5
Fuel consumption/ Rotation speed (g/kW.h/r/min)	276.1/3000, 285.6/3600	276.1/3000, 285.6/3600	275.1/3000, 281.5/3600	275.1/3000, 281.5/3600
Lube oil type	CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40
Lube oil capacity (L)	1.1	1.1	1.65	1.65
Starting motor capacity (V, kW)	12V 0.8kW	12V 0.8kW	12V 0.8kW	12V 0.8kW
Charging generator capacity (V, A)	12V 3A	12V 3A	12V 3A	12V 3A
Battery capacity (V, Ah)	Above 12V36Ah	Above 12V36Ah	Above 12V36Ah	Above 12V36Ah
Overall dimension(L×W×H) (mm)	385X420X450	385X420X450	420X440X495	420X440X495
Dry weight (kg)	≤33	≤33	≤47	≤47

Performance Curve



WATER PUMP

DIESEL

COVAX offers a number of pump models for a wide variety of applications in agriculture, industry, residential, rental, etc. From our clean water pumps to our trash pumps, each of our pumps offers outstanding performance.

Legendary COVAX engines are the heart of our pump line. They start easily and provide sufficient and stable Power for the job at hand. Pumps are powered with either gasoline or diesel engines.

Do you chase after unparalleled water pumps? COVAX pumps are exactly what you want.



Economical Running

Equipped with COVAX engines, COVAX pump offer superior combustion efficiency and minimal fuel consumption.

Portability

A special alloy frame reduces weight and facilitates movement around the work site.

A Wide Range of Performance

An advanced impeller design insures a high volume of water ingestion.

Durable Construction

The principal parts of the pump are designed for reduced wear and corrosion resistance.

Easy Maintenance

Cleaning the inside of the pumps can be performed by removing just a few bolts.

Delicate Design

Featuring COVAX commercial grade engine and rugged full frame protection with anti-vibration mounts, these pumps feature a fixed mounted cast iron volute and impeller with a silicon carbide seal. This is the ultimate combination of features to provide unsurpassed performance and durability in the toughest conditions.



TRASH PUMP

DIESEL

For those applications where large solids and other debris are encountered, COVAX offers a line of trash pumps designed to smoothly and safely handles that material. Deep impeller vanes and a large diameter discharge opening can pass suspended twigs, stones and other solids without clogging the pump or harming its internal components. Designed to be user friendly, these self-priming pumps remain serviceable under the harshest conditions.

Reliability

Our technology absolutely sets the standard for reliability. That is why working professionals prefer COVAX equipment. There is virtually no downtime and longevity is unsurpassed.

Fuel Efficient and Quiet

Our engines are remarkable fuel efficient and quiet. This counts for a lot on any job site.

Easy to Start

The COVAX engines on the pumps are easy to start and easy to use. The engine are perfectly matched to the pumps and are engineered for quality and percision.

Full Frame Protection

The pumps are enclosed in a full frame to provide ultimate protection and are engineered to minimize vibration.

Long Running, Fuel Thrifty Diesels

Fuel-efficient diesel pumps can be operated 1.5-4 times longer than gasoline pumps. This advantage truly shows in night time and other continuous pumping operation at sites where no commercial power is available.

Durable Construction

The principal parts of each pump are reinforced for superior wear resistance. The trash pumps are further strengthened by adding liners to the inner casings.

Easy Maintenance

Cleaning the inside of the casing can be done simply by just removing a few bolts. With trash pumps, the casing cover and the inner casing come in one block, so separation and fitting is very easy.



Technical Data

Model	KDP20/KDP20E	KDP30/KDP30E	KDP40
Type	Diesel pump	Diesel pump	Diesel pump
Suction & discharge port diameter (mm) (in)	50 (2")	80 (3")	100 (4")
Rated capacity (m ³ /h)	22.0	30.0	40.0
Rated total head (m)	15	13	16
Self-priming time (s/4m)	80	120	180
Max.suction head (m)	8.0	8.0	8.0
Rotation speed (r/min)	3600	3600	3600
Fuel consumption (g/kW.h)	288	285	281
Noise level [dB(A)/7m]	74.0	76.0	79.0
Overall dimension (mm)(LxWxH)	525x410x515	570x445x550	650x480x600
Net weight (kg)	38.5	49	62.5
Engine model	KM170	KM178	KM186
Rated power (kW)	2.8	4.0	6.3
Rated speed (r/min)	3600	3600	3600
Displacement (cm ³)	211	296	406
Starter system	KDP20: Recoil starter KDP20E: Electric starter	KDP30: Recoil starter KDP30E: Electric starter	KDP40: Recoil starter KDP40E: Electric starter

Technical Data

Model	KDP20T	KDP30T	KDP40T
Type	Diesel pump	Diesel pump	Gasoline pump
Suction & discharge port diameter (mm) (in)	40 (1.5")	40 (1.5")	40 (1.5")
Rated capacity (m ³ /h)	5.0	5.0	5.0
Rated total head (m)	42	42	42
Self-priming time (s/4m)	40	40	180
Max.suction head (m)	8.0	8.0	5.0
Rotation speed (r/min)	3600	3600	3600
Fuel consumption (g/kW.h)	285	285	395
Noise level [dB(A)/7m]	79	79	72
Overall dimension (mm)(LxWxH)	570x445x550	570x445x550	510x432x415
Net weight (kg)	43	43	29
Engine model	KM178	KM178	KG200P
Rated power (kW)	4.0	4.0	4.0
Rated speed (r/min)	3600	3600	3600
Displacement (cm ³)	296	296	196
Starter system	Recoil starter	Electric starter	Recoil starter

PORTABLE GENERAL GENERATOR

Power, you can trust

COVAX always develops products from the customer's point of view. To facilitate operation, COVAX equips its generator with a user-friendly control panel as well as provisions of a COVAX automatic transfer switch. The new series of generator sets feature the following benefits:

The digital control panel can be applied to dual voltage, single phase and three phase generator sets.

When utility power fails, a COVAX automatic transfer switch senses the loss of power and immediately starts the generator. Once utility power is restored, the transfer switch shifts your electric load back to utility power and shuts off the generator.

The automatic transfer switch exercises the generator weekly to ensure it is always in working order, and it can be mounted inside the generator or attached as an optional accessory.

Most generators in this series are equipped with brushless alternators which establish stable voltage in a minimum amount of time. The generator set maintains smooth and quality output.

ATS

(AUTOMATIC TRANSFER SWITCH)

The new series of COVAX general purpose generator sets equipped with digital control panels can be equipped with an ATS. The ATS can automatically check and monitor genset running performance to ensure it is in good working condition. The ATS will also monitor utility power. In the event of a power failure or if utility power voltage and frequency is abnormal, the ATS will command the generator set to start automatically.

Once utility power is restored, the ATS shifts the load back to utility power and shuts down the generator.



FEATURES & BENEFITS

Low running noise

High efficiency combustion system ensures complete combustion. A large silencer dampens exhaust noise and engine sounds are contained by a double wall structure and liner absorber.

Digital control panel

All control functions of the generator are on a central panel. A digital display indicates the real time performance data of the generator such as voltage, frequency, oil pressure, and battery condition. The panel also displays any fault that shuts down the genset.

Advanced alternator winding

Waveform distortion is kept at a minimum level with a stable output. The winding design protects the generator from short circuit and provides a stable output while running inductive loads.

Low oil alarm system

Before the oil level drops to a dangerous level, the generator will stop automatically. It can only be restarted after the proper oil level is restored.

Application of new AVR

The automatic voltage regulator (AVR) not only can smooth the output but also provides protection against overload, avoiding expensive damage.

Strong power

All generator sets are equipped with COVAX four stroke diesel engines.



KDE GENERAL

FEATURES & BENEFITS

Delivering the power you need

Powerful, flexible, versatile, reliable, durable; COVAX generators have it covered on every level.

Quieter and more powerful

A high efficiency combustion system ensures complete combustion. A large silencer dampens exhaust noise and engine sounds are contained in a double-walled structure and absorbed by a special liner.

Wide application

Various models are available to meet all customers' requirements.

Easily portable

An open frame configuration means it's easy to handle and store when not in use.

Control panel

All operating functions of the generator sets are on the panel. A digital readout displays operating parameters in real time such as output voltage and amperage. Circuit breakers protect the generator from overloads.



KDE2500X/E



KDE4000X/E



KDE7000E/E3



KDE7500E/E3



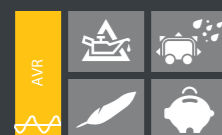
KDE8500E/E3



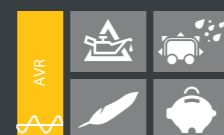
KDE12EA/EA3

KDE DIESEL MODELS

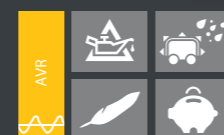
Rated frequency (Hz)
Rated output (kVA)
Max. output (kVA)
Dimensions(mm)
Noise level [dB(A)/7m]
Net weight(kg)



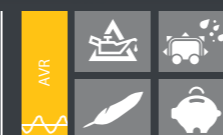
50/60
1.7/2.0
2.0/2.2
640x480x530
77
53/60



50/60
2.8/3.3
3.2/3.8
655x480x530
77
65/70



50/60	50/60
4.5/5.0	5.5/6.3
5.0/5.5	6.0/7.0
720x492x655	720x492x655
79	79
100	100



50	50
5.0	6.3
5.5	6.9
710x515x630	710x515x630
83	83
100	100



50	50
6	7.5
6.5	8.1
720x525x640	720x525x640
83	83
110	110



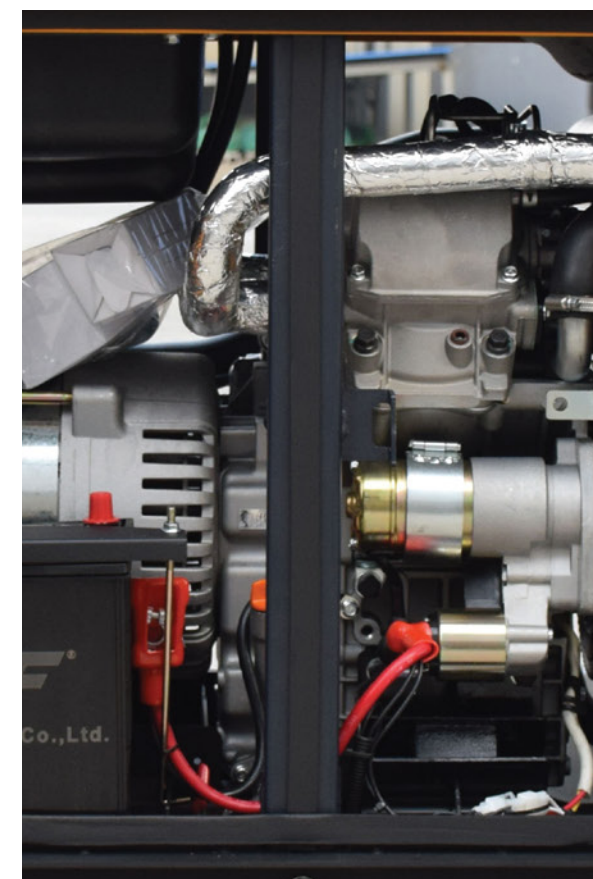
50/60	50/60
8.5/9	10/11.5
9.5/10	11/12.65
1030x600x650	1030x600x650
85	85
210	210

KDE GENERAL

COVAX KDE SERIES HAS THE SUPPORT OF WORKING PROFESSIONALS EVERYWHERE.

This diesel powered generator line is produced in three versions to accommodate the most common applications.

All offer great durability, low vibration, quiet operation, and recoil or convenient electric starting.



KDE7000T/T3



KDE6700T/T3



KDE7500T/T3



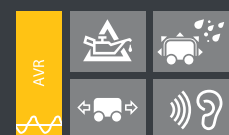
KDE8500T/T3



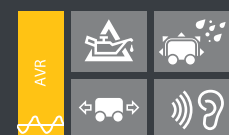
KDE12STA/STA3

KDE DIESEL MODELS

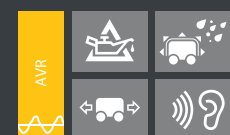
Rated frequency (Hz)
 Rated output (kVA)
 Max. output (kVA)
 Dimensions(mm)
 Noise level [dB(A)/7m]
 Net weight(kg)



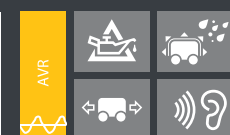
50/60	50/60
4.5/5.0	5.5/6.3
5.0/5.5	6.0/7.0
912x532x740	912x532x740
72	72
158/165	158/165



50/60	50/60
4.5/5.0	5.5/6.3
5.0/5.5	6.0/7.0
930x535x742	930x535x742
72	72
170/177	170/177



50	50
5.0	6.3
5.5	6.9
950x565x780	950x565x780
70	70
160	160



50	50
6	7.5
6.5	8.1
978x565x780	978x565x780
70	70
170	170



50/60	50/60
8.5/9	10/11.5
9.5/10	11/12.65
1350x650x760	1350x650x760
72	72
310	310



50/60	50/60
8.5/9	10/11.5
9.5/10	11/12.65
1350x650x760	1350x650x760
72	72
310	310



50/60	50/60
8.5/9	10/11.5
9.5/10	11/12.65
1350x650x760	1350x650x760
72	72
310	310



KDE GENERAL

COVAX HAS BROUGHT OUT A NEW SERIES OF GENERAL GENERATOR SETS.

Compared with traditional models, diesel general gensets have been greatly improved by technical breakthrough and innovation, which are featured by impressive noise reduction, easy transportation, higher power, easy maintenance, and so on.



KDE7000STA

KDE7000STA3

KDE7500STA

KDE7500STA3

FEATURES AND BENEFITS

1 Stronger power

COVAX newly-developed single engine can be introduced with excellent low speed torque to the structure of gensets, not adding the overall dimension of the gensets; the application of KT5 and KT6 alternators enhances the generating efficiency.

2 Remarkable noise reduction

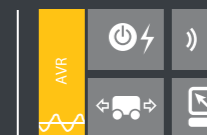
Thanks to persistent research and development of COVAX technical departments, gensets' noise level at no load is decreased to only 65dB(A)/m, which has already been impressive progress for noise reduction.

3 More convenient maintenance

AVR, air filter and fuel filter are all designed with individual access panels, so that component replacement can be done without dismounting the genset cabinet.

KDE DIESEL MODELS

Rated frequency (Hz)	50/60
Rated output (kVA)	4.2/4.6
Max. output (kVA)	4.6/5.0
Dimensions(mm)	870x645x710
Noise level [dB(A)/7m]	72
Net weight(kg)	175



Rated frequency (Hz)	50/60
Rated output (kVA)	5.25/5.75
Max. output (kVA)	5.75/6.25
Dimensions(mm)	870x645x710
Noise level [dB(A)/7m]	72
Net weight(kg)	175

Rated frequency (Hz)	50/60
Rated output (kVA)	5.0/5.5
Max. output (kVA)	5.5/6.0
Dimensions(mm)	870x645x710
Noise level [dB(A)/7m]	73
Net weight(kg)	178

Rated frequency (Hz)	50/60
Rated output (kVA)	6.25/7.0
Max. output (kVA)	6.9/7.7
Dimensions(mm)	870x645x710
Noise level [dB(A)/7m]	73
Net weight(kg)	178

Technical Data

Generating set		KDE2500X		KDE2500E		KDE4000X	
Rated frequency	Hz	50	60	50	60	50	60
Prime power	KVA	1.7	2.0	1.7	2.0	2.8	3.3
	KW	1.7	2.0	1.7	2.0	2.8	3.3
Standby power	KVA	2.0	2.2	2.0	2.2	3.2	3.8
	KW	2.0	2.2	2.0	2.2	3.2	3.8
Rated voltage	V	115/230	120/240	115/230	120/240	115/230	120/240
Rated current	A	14.8/7.4	16.7/8.3	3.9	7.5/3.75	24.3/12.2	27.5/13.8
Rated rotation speed	r/min	3000	3600	3000	3600	3000	3600
Generator							
Generator type		KT2		KT2		KT3.3	
Pole No.		2		2		2	
Phase number		Single phase		Three phase		Single phase	
Excitation mode		Self-excitation and constant voltage(with AVR)					
Power Factor	COSΦ	1.0		1.0		1.0	
Insulation grade		B		B		B	
Engine							
Engine type		KM170FG		KM170FG		KM178FG	
Structure type		Single-cylinder, vertical, four-stroke, direct injection		Single-cylinder, vertical, four-stroke, direct injection		Single-cylinder, vertical, four-stroke, direct injection	
Bore x stroke	mm	1-70×55		1-70×55		1-78×62	
Displacement	L	211		211		296	
Compression ratio		20:1		20:1		20:1	
Rated power	WK	2.5/3000	2.8/3600	2.5/3000	2.8/3600	3.68/3000	4.0/3600
Lubrication system		Pressure splashed		Pressure splashed		Pressure splashed	
Lube oil brand		CD grade or SAE10W-30, 15W-40		CD grade or SAE10W-30, 15W-40		CD grade or SAE10W-30, 15W-40	
Lube capacity	L	0.75		0.75		1.1	
Starting system		12V Electric system		12V Electric system		Air cooled	
Starting motor capacity		12V	0.8KW	12V	0.8KW	12V	0.8KW
Charging generator capacity	V-A	12V	3A	12V	3A	12V	3A
Battery capacity	V-Ah	12V	36Ah	12V	36Ah	12V	36Ah
Fuel consumption ratio	g/KW.h	≤370		≤370		≤370	
Fuel type		0 # (summer), -10 # (winter), -35 # (chillness) diesel					
Genset							
Panel type		General Panel		General Panel		General Panel	
Output	Receptacle	Two receptacles		Two receptacles		Two receptacles	
	Connection pole	N/A		N/A		N/A	
	DC12V output	Connection pole output		Connection pole output		Connection pole output	
Noise level(7)m	dB(A)	77		77		77	
Fuel tank capacity	L	13.5		13.5		13.5	
Overall dimensions	mm	640×480×530		640×480×530		655×480×530	
Dry weight	kg	53		60		65	

Technical Data

		KDE4000E		KDE7000E		KDE7000E3		KDE7000T	
		50	60	50	60	50	60	50	60
		2.8	3.3	4.5	5.0	5.5	6.3	4.5	5.0
		2.8	3.3	4.5	5.0	4.4	5.0	4.5	5.0
		3.2	3.8	5.0	5.5	6.0	7.0	5.0	5.5
		3.2	3.8	5.0	5.5	4.8	5.6	5.0	5.5
		115/230	120/240	115/230	120/240	230/400	240/416	115/230	120/240
		24.3/12.2	27.5/13.8	3.9	7.5/3.75	7.9	8.7	39.1/19.6	41.7/20.8
		3000	3600	3000	3600	3000	3600	3000	3600
Generator									
		KT3.3		KT5		KT5		KT5	
		2		2		2		2	
		Single phase		Three phase		Three phase		Single phase	
		Self-excitation and constant voltage(with AVR)							
		1.0		1.0		0.8(lag)		1.0	
		B		B		B		B	
Engine									
		KM178FG		KM186FAG		KM186FAG		KM186FAGET	
		Single-cylinder, vertical, four-stroke, direct injection		Single-cylinder, vertical, four-stroke, direct injection		Single-cylinder, vertical, four-stroke, direct injection		Single-cylinder, vertical, four-stroke, direct injection	
		1-78-x62		1-86x72		1-86x72		1-86x72	
		296		418		418		418	
		20:1		19:1		19:1		19:1	
		3.68/3000	4.0/3600	5.7/3000	6.3/3600	5.7/3000	6.3/3600	5.7/3000	6.3/3600
		Pressure splashed		Pressure splashed		Pressure splashed		Pressure splashed	
		CD grade or SAE10W-30, 15W-40		CD grade or SAE10W-30, 15W-40		CD grade or SAE10W-30, 15W-40		CD grade or SAE10W-30, 15W-40	
		1.1		1.65		1.65		1.65	
		Electric starter		X: Recoil starter	E: Electric starter	Air cooled		Air cooled	
		12V	0.8KW	12V	0.8KW	12V	0.8KW	12V	0.8KW
		12V	3A	12V	3A	12V	3A	12V	3A
		12V	36Ah	12V	36Ah	12V	36Ah	12V	36Ah
		≤370		≤360		≤360		≤360	
		0 # (summer), -10 # (winter), -35 # (chillness) diesel							
Genset									
		General Panel		General Panel		General Panel		General Panel	
		Two receptacles		Two receptacles		One single-phase & one three-phase receptacle		Two receptacles	
		N/A		N/A		N/A		N/A	
		Connection pole output		Connection pole output		N/A		Connection pole output	
		77		77		79		72	
		13.5		13.5		13.5		15	
		655×480×530		720x492x655		720x492x655		915x532x740	
		70		X:95 E:100		100		158	

Technical Data

Generating set		KDE7000T3		KDE6700T		KDE6700T3	
Rated frequency	Hz	50	60	50	60	50	60
Prime power	KVA	5.5	6.3	4.5	5.0	5.5	6.3
	KW	4.4	5.0	4.5	5.0	4.4	5.0
Standby power	KVA	6	7	5.0	5.5	6	7
	KW	4.8	5.6	5.0	5.5	4.8	5.6
Rated voltage	V	230/400	240/416	115/230	120/240	230/400	240/416
Rated current	A	7.9	8.7	39.1/19.6	41.7/20.8	7.9	8.7
Rated rotation speed	r/min	3000	3600	3000	3600	3000	3600
Generator							
Generator type		KT5		KT5		KT5	
Pole No.		2		2		2	
Phase number		Three phase		Single phase		Single phase	
Excitation mode		Self-excitation and constant voltage(with AVR)					
Power Factor	COSΦ	0.8(lag)		1.0		0.8(lag)	
Insulation grade		B		B		B	
Engine							
Engine type		KM186AGET		KM186FAGET		KM186FAGET	
Structure type		Single-cylinder, vertical, four-stroke, direct injection		Single-cylinder, vertical, four-stroke, direct injection		Single-cylinder, vertical, four-stroke, direct injection	
Bore x stroke	mm	1-86x72		1-86x72		1-86x72	
Displacement	L	418		418		418	
Compression ratio		19:1		19:1		19:1	
Rated power	WK	5.7/3000	6.3/3600	5.7/3000	6.3/3600	5.7/3000	6.3/3600
Lubrication system		Pressure splashed		Pressure splashed		Pressure splashed	
Lube oil brand		CD grade or SAE10W-30, 15W-40		CD grade or SAE10W-30, 15W-40		CD grade or SAE10W-30, 15W-40	
Lube capacity	L	1.65		0.75		1.65	
Starting system		Air cooled		Electric Start		Electric Start	
Starting motor capacity		12V	0.8KW	12V	0.8KW	12V	0.8KW
Charging generator capacity	V-A	12V	3A	12V	3A	12V	3A
Battery capacity	V-Ah	12V	36Ah	12V	36Ah	12V	36Ah
Fuel consumption ratio	g/KW.h	≤360		≤360		≤360	
Fuel type		0 # (summer), -10 # (winter), -35 # (chillness) diesel					
Genset							
Panel type		General Panel		General Panel		General Panel	
Output	Receptacle	One single-phase & one three-phase receptacles		Two receptacles	One single-phase & one three-phase receptacles		
	Connection pole	N/A		N/A		N/A	
	DC12V output	N/A		Connection pole output		N/A	
Nosie level(7)m	dB(A)	72		72		72	
Fuel tank capacity	L	15		15		13.5	
Overall dimensions	mm	912x532x740		930x535x742		930x535x742	
Dry weight	kg	165		170		177	

Technical Data

		KDE7500E		KDE7500E3		KDE7500T		KDE7500T3	
		50	50	50	50	50	50	50	50
		5.0	6.3	5.0	6.3	5.0	6.3	5.0	6.3
		5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
		5.5	6.9	5.5	6.9	5.5	6.9	5.5	6.9
		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
		115/230	400/230	115/230	400/230	115/230	400/230	115/230	400/230
		48.5/21.7	9.1	43.5/21.7	9.1	43.5/21.7	9.1	43.5/21.7	9.1
		3000	3000	3000	3000	3000	3000	3000	3000
Generator									
		KT6		KT6		KT6		KT6	
		2		2		2		2	
		Single phase		Three phases		Single phase		Three phases	
		Controlled silicon self excitation constant voltage							
		1.0		0.8		1		0.8	
		F		F		F		F	
Engine									
		KM188FE		KM188FE		KM188FE		KM188FE	
		4-stroke, single-cylinder, air-cooled, direct injection diesel engine							
		88x75		88x75		88x75		88x75	
		0.456		0.456		0.456		0.456	
		19.5 : 1		19.5 : 1		19.5 : 1		19.5 : 1	
		6.6/3000		6.6/3000		6.6/3000		6.6/3000	
		Pressure splashed		Pressure splashed		Pressure splashed		Pressure splashed	
		CD grade 10W-30, 15W-40							
		1.65		1.65		1.65		1.65	
		Electric starter		Electric starter		Electric starter		Electric starter	
		0.8Kw		0.8Kw		0.8Kw		0.8Kw	
		14V-8.3A							
		12V-36Ah							
		275		275		275		275	
		0 # (summer), -10 # (winter), diesel oil							
Panel									
		Volt meter		Volt meter		Volt + Hour meter		Volt + Hour meter	
		Three-hole anti-loose socket		Three-hole anti-loose socket		Three-hole anti-loose socket		Three-hole anti-loose socket	
		Without		Without		Without		Without	
		12V/8.3A		12V/8.3A		12V/8.3A		12V/8.3A	
		83		83		70		70	
		12.5		12.5		14.5		14.5	
		710x515x630		710x515x630		950x565x780		950x565x780	
		100		100		160		160	

Technical Data

Generating set		KDE8500E	KDE8500E3	KDE8500T
Rated frequency	Hz	50	50	50
Prime power	KVA	6.0	7.5	6.0
	KW	6.0	6.0	6.0
Standby power	KVA	6.5	8.1	6.5
	KW	6.5	6.5	6.5
Rated voltage	V	115/230	400/230	115/230
Rated current	A	52.2/26.1	10.8	52.2/26.1
Rated rotation speed	r/min	3000	3000	3000
Generator				
Generator type		KT8	KT8	KT8
Pole No.		2	2	2
Phase number		Single phase	Three phase	Single phase
Excitation mode		Controlled silicon self excitation constant voltage		
Power Factor	COSΦ	1	0.8	1
Insulation grade		F	F	F
Engine				
Engine type		KM192FE	KM192FE	KM192FE
Structure type		4-stroke, single-cylinder, air-cooled, direct injection diesel engine		
Bore x stroke	mm	92×75	92×75	92×75
Displacement	L	0.499	0.499	0.499
Compression ratio		19.5 : 1	19.5 : 1	19.5 : 1
Rated power	WK	7.6/3000	7.6/3000	7.6/3000
Lubrication system		Pressure splashed	Pressure splashed	Pressure splashed
Lube oil brand		CD grade 10W-30, 15W-40		
Lube capacity	L	1.65	1.65	1.65
Starting system		Electric starter	Electric starter	Electric starter
Starting motor capacity		1.2Kw	1.2Kw	1.2Kw
Charging generator capacity	V-A		14V-8.3A	
Battery capacity	V-Ah		12V-36Ah	
Fuel consumption ratio	g/KW.h	265	265	265
Fuel type		0 # (summer),-10 # (winter), diesel oil		
Genset				
Panel type		Volt meter	Volt meter	Volt + Hour meter
Output	Receptacle	Three-hole anti-loose socket		
	Connection pole	Without		
	DC12V output	12V/8.3A		
Nosie level(7)m	dB(A)	83	83	70
Fuel tank capacity	L	12.5	12.5	14.5
Overall dimensions	mm	720×525×640	720×525×640	978×565×780
Dry weight	kg	110	110	170

Technical Data

		KDE8500T3		KDE12EA		KDE12EA3		KDE12STA		KDE12STA3			
		50	60	50	60	50	60	50	60	50	60		
Rated frequency		50	60	50	60	50	60	50	60	50	60		
Prime power	KVA	7.5	9	10	11.5	8.5	9	10	11.5	8.5	11.5		
	KW	6.0	9	8	9.2	8.5	9	8	9.2	8	9.2		
Standby power	KVA	8.1	10	11	12.65	9.5	10	11	12.65	9.5	12.65		
	KW	6.5	10	8.8	10.1	9.5	10	8.8	10.1	9.5	10.1		
Rated voltage	V	400/230	115/230	120/240	400/230	416/240	115/230	120/240	400/230	416/240	416/240		
Rated current	A	10.8	73.9/37	75/37.5	14.4	16	73.9/37	75/37.5	14.4	16	16		
Rated rotation speed	r/min	3000	3000	3600	3000	3600	3000	3600	3000	3600	3600		
Generator													
Generator type		KT8	KT12	KTS12	KT12	KTS12	KT12	KTS12	KT12	KTS12	KTS12		
Pole No.		2	2	2	2	2	2	2	2	2	2		
Phase number		Three phase	Single phase	Three phase	Single phase	Three phase	Single phase	Three phase	Single phase	Three phase	Three phase		
Excitation mode		Controlled silicon self excitation constant voltage				Self-excitation and constant voltage(with AVR)							
Power Factor		0.8	1.0	0.8(lag)	1.0	0.8(lag)	1.0	1.0	0.8(lag)	0.8(lag)	0.8(lag)		
Insulation grade		F	B	B	B	B	B	B	B	B	B		
Engine													
Engine type		KM192FE	KM2V80G	KM2V80G	KM2V80G	KM2V80G	KM2V80G	KM2V80G	KM2V80G	KM2V80G	KM2V80G		
Structure type		4-stroke, single-cylinder air-cooled, direct injection diesel engine	V type double cylinder, 4-stroke, swirl chamber,water-cooled	V type double cylinder, 4-stroke, swirl chamber,water-cooled	V type double cylinder, 4-stroke, swirl chamber,water-cooled	V type double cylinder, 4-stroke, swirl chamber,water-cooled	V type double cylinder, 4-stroke, swirl chamber,water-cooled	V type double cylinder, 4-stroke, swirl chamber,water-cooled	V type double cylinder, 4-stroke, swirl chamber,water-cooled	V type double cylinder, 4-stroke, swirl chamber,water-cooled	V type double cylinder, 4-stroke, swirl chamber,water-cooled		
Bore x stroke	mm	92×75	80×79	80×79	80×79	80×79	80×79	80×79	80×79	80×79	80×79		
Displacement	L	0.499	0.794	0.794	0.794	0.794	0.794	0.794	0.794	0.794	0.794		
Compression ratio		19.5 : 1	23	23	23	23	23	23	23	23	23		
Rated power	WK	7.6/3000	12.5	14.5	12.5	14.5	12.5	14.5	12.5	14.5	14.5		
Lubrication system		Pressure splashed	Pressure splashed	Pressure splashed	Pressure splashed	Pressure splashed	Pressure splashed	Pressure splashed	Pressure splashed	Pressure splashed	Pressure splashed		
Lube oil brand		CD grade 10W-30, 15W-40				Above CD SAE 10W-30, 15W-40							
Lube capacity	L	1.65	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27		
Starting system		Electric starter	12V Electric system	12V Electric system	12V Electric system	12V Electric system	12V Electric system	12V Electric system	12V Electric system	12V Electric system	12V Electric system		
Starting motor capacity		1.2Kw	12V 1.4KW	12V 1.4KW	12V 1.4KW	12V 1.4KW	12V 1.4KW	12V 1.4KW	12V 1.4KW	12V 1.4KW	12V 1.4KW		
Charging generator capacity	V-A	14V-8.3A	12V 20A	12V 20A	12V 20A	12V 20A	12V 20A	12V 20A	12V 20A	12V 20A	12V 20A		
Battery capacity	V-Ah	12V-36Ah	12V 45Ah	12V 45Ah	12V 45Ah	12V 45Ah	12V 36Ah	12V 36Ah	12V 36Ah	12V 36Ah	12V 36Ah		
Fuel consumption ratio	g/KW.h	265	285	297	285	297	285	297	285	297	297		
Fuel type		0 # (summer),-10 # (winter), diesel oil				0 # (summer),-10 # (winter),-35 # (chillness) diesel							
Genset													
Panel type		Volt + Hour meter	KP310 smart panel	KP310 smart panel	KP310 smart panel	KP310 smart panel	KP310 smart panel	KP310 smart panel	KP310 smart panel	KP310 smart panel	KP310 smart panel		
Output	Receptacle	Three-hole anti-loose socket				2-Single phase				2-Single phase			
	Connection pole	Without				With				With			
	DC12V output	12V/8.3A				-				-			
Nosie level(7)m	dB(A)	70	85	85	72	72	72	72	72	72	72		
Fuel tank capacity	L	14.5	25	25	26	26	26	26	26	26	26		
Overall dimensions	mm	978×565×780	1030X600X650	1030X600X650	1350×650×760	1350×650×760	1350×650×760	1350×650×760	1350×650×760	1350×650×760	1350×650×760		
Dry weight	kg	170	210	210	310	310	310	310	310	310	310		

ULTRA SILENT

DIESEL GENERATOR



package purpose built to go anywhere

For applications that demand maximum output and minimum size, the ULTRA SILENT Series is what you need. Equipped with COVAX e-AVR Technology, the ULTRA SILENT Series gives you more stable power to start your appliances quickly and efficiently. The e-AVR Control Unit in the generator automatically senses and enters into Constant Output Model to achieve higher load capacity. The ULTRA SILENT Series generates the power and space you require for truly big performance.

FEATURES & BENEFITS

Improved output performance

Achieve higher load capacity by using Constant Output function. Enhance reliability by using new microprocessor which equipped with e-AVR Technology.

Reputable PMG alternator

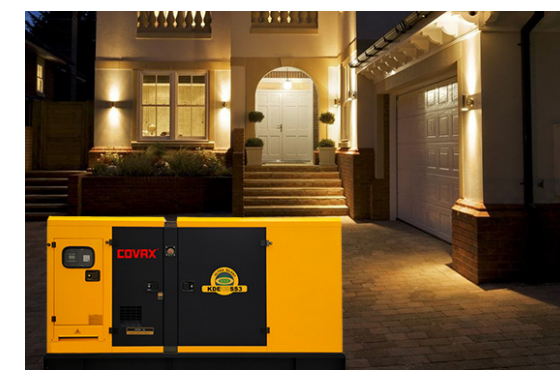
Offer enhanced motor starting and fault clearing short-circuit capability. Maximum reliability and stringent quality, respond rapidly to load fluctuations and provide stable and sufficient power at all times.

Environmental friendly package

Adopt split design of input panel to greatly improve safety, and integral silent design to reduce noise.

Reliable engine

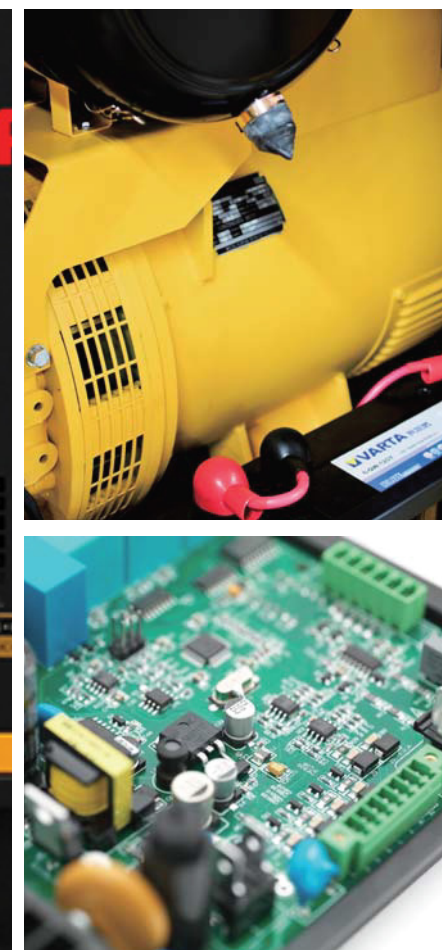
The four valve power pack specially designed with an integrate water cooled engine, built to deliver the reliable and dependable power.



ULTRA SILENT

ONE OR MORE UNITS OF COVAX SILENT EMERGENCY GENERATORS CAN MEET YOUR NEEDS ANYTIME A POWER OUTAGE OCCURS.

Your equipment will be protected with a reliable power supply in an emergency.



Ultra Silent



KDE11SS3



KDE13SS3



KDE17SS3



KDE20SS3



KDE23SS3



KDE30SS3



KDE35SS3

KDE DIESEL MODELS

Rated frequency (Hz)
Rated output (kVA)
Max. output (kVA)
Dimensions(mm)
Noise level [dB(A)/1m]
Net weight(kg)



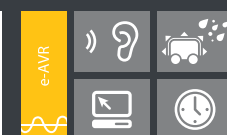
50/60
10
11
1680x800x1047
62
590



50/60
11
13
1680x800x1047
62
610



50/60
14
17
1680x800x1047
62
625



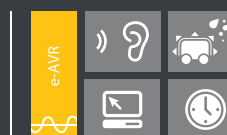
50/60
18
20
1840x800x1047
75
688



50/60
21
23
1840x800x1047
75
690



50/60
27
30
1950x800x1047
80
760



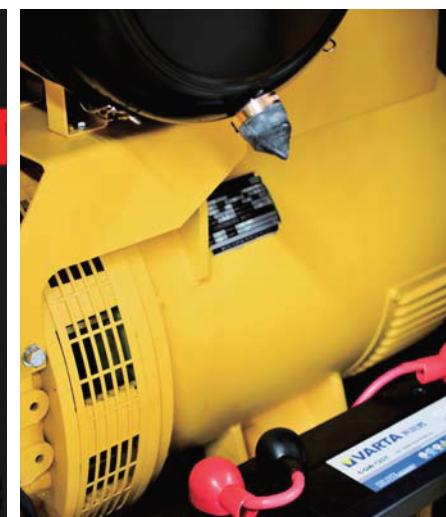
50/60
30
35
2100x880x1147
95
950

Ultra Silent

ULTRA SILENT

ONE OR MORE UNITS OF COVAX SILENT EMERGENCY GENERATORS CAN MEET YOUR NEEDS ANYTIME A POWER OUTAGE OCCURS.

Your equipment will be protected with a reliable power supply in an emergency.



Ultra Silent



KDE45SS3



KDE60SS3



KDE65SS3



KDE75SS3



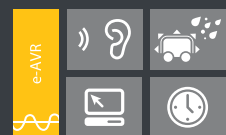
KDE100SS3



KDE120SS3

KDE DIESEL MODELS

Rated frequency (Hz)
Rated output (kVA)
Max. output (kVA)
Dimensions(mm)
Noise level [dB(A)/1m]
Net weight(kg)



50/60
40
45
2100x880x1147
95
990



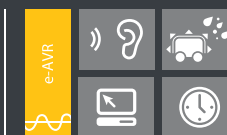
50/60
55
60
2460x1000x1257
135
1160



50/60
60
65
2460x1000x1257
135
1180



50/60
70
75
2460x1000x1257
135
1200



50/60
90
100
2560x1000x1257
135
1270



50/60
110
120
2900x1090x1650
300
1690

Ultra Silent

Technical Data

Generating set		KDE11SS3	KDE13SS3	KDE17SS3
Rated frequency	Hz	50	50	50
Prime power	KVA	10	11	14
	KW	8	8.8	10.8
Standby power	KVA	11	13	17
	KW	9	9.6	11.9
Rated voltage	V	230/400	230/400	230/400
Rated current	A	14.1	15.8	20.2
Rated rotation speed	r/min	1500	1500	1500
Generator				
Generator type		LA164B	LA164B	LA164C
Pole No.		4	4	4
Phase number		Three Phase	Three Phase	Three Phase
Excitation mode		Brushless self-excited constant voltage (AVR)		
Power Factor	COSΦ	0.8	0.8	0.8
Insulation grade		H	H	H
Engine				
Engine type		LD3210	LD3220	LD4210
Structure type		Three cylinder, in-line, water-cooled, direct injection	Three cylinder, in-line, water-cooled, direct injection	Four cylinder, in-line, water-cooled, direct injection
Bore x stroke	mm	80 x 90	85 x 95	80 X 90
Displacement	L	1.357	1.532	1.809
Compression ratio		18:1	18:1	18:1
Rated power	WK	10	11	14
Lubrication system		Pressure splashed		
Lube oil brand		SAE10W-30,15W-40 (above CD grade)		
Lube capacity	L	5.6	5.6	6.7
Starting system		12V Electric starter		
Starting motor capacity		12V45Ah x1	12V45Ah x1	12V45Ah x1
Charging generator capacity	V-A	12	12	12
Battery capacity	V-Ah	12V45Ah x1	12V45Ah x1	12V45Ah x1
Fuel consumption ratio	g/KW.h	<230	<230	<230
Fuel type		0# (summer), -10# (winter), -35# (chillness) diesel		
Genset				
Panel type		4020	4020	4020
Nosie level(7)m	dB(A)	62	62	62
Fuel tank capacity	L	65	65	65
Overall dimensions	mm	1680x800x1047	1680x800x1047	1680x800x1047
Dry weight	kg	590	610	625

Technical Data

		KDE20SS3	KDE23SS3	KDE30SS3	KDE35SS3
		50	50	50	50
		18	21	27	30
		12.8	16.8	21.6	24
		20	23	30	35
		14	18.5	23.8	26.4
		230/400	230/400	230/400	230/400
		25.9	30.3	39	43.3
		1500	1500	1500	1500
Generator					
		LA164D	LA184E	LA184F	LA184G
		4	4	4	4
		Three Phase	Three Phase	Three Phase	Three Phase
		Brushless self-excited constant voltage (AVR)			
		0.8	0.8	0.8	0.8
		H	H	H	H
Engine					
		LD4220	LD4230	LD4240	LD4250
		Four cylinder, in-line, water-cooled, direct injection	Four cylinder, in-line, water-cooled, direct injection	Four cylinder, in-line, water-cooled, direct injection	Four cylinder, in-line, water-cooled, direct injection
		85 X 95	90 X 100	95 X 105	100 X 118
		2.156	2.54	2.977	3.707
		18:1	18:1	18:1	18:1
		17	21	27	30
		Pressure splashed	Pressure splashed	Pressure splashed	Pressure splashed
		SAE10W-30,15W-40 (above CD grade)			
		6.7	7.6	7.6	10.46
		12V Electric starter			
		12V45Ah x1	12V45Ah x1	12V45Ah x1	12V80Ah x2
		12	12	12	24
		12V45Ah x1	12V45Ah x1	12V45Ah x1	12V80Ah x2
		<230	<230	<230	<260
		0# (summer), -10# (winter), -35# (chillness) diesel			
Genset					
		4020	4020	4020	4020
		62	62	62	62
		75	75	80	95
		1840x800x1047	1840x800x1047	1950x800x1047	2100x880x1147
		688	690	760	950

Technical Data

Generating set		KDE45SS3	KDE60SS3	KDE65SS3
Rated frequency	Hz	50	50	50
Prime power	KVA	40	55	60
	KW	32	44	48
Standby power	KVA	45	60	65
	KW	36	48	52
Rated voltage	V	230/400	230/400	230/400
Rated current	A	57.7	79.4	86.6
Rated rotation speed	r/min	1500	1500	1500
Generator				
Generator type		LA184H	LA224D	LA224E
Pole No.		4	4	4
Phase number		Three Phase	Three Phase	Three Phase
Excitation mode		Brushless self-excited constant voltage (AVR)		
Power Factor	COSΦ	0.8	0.8	0.8
Insulation grade		H	H	H
Engine				
Engine type		LD4270	LD4280	LD4290
Structure type		Four cylinder, in-line, water-cooled, direct injection	Four cylinder, in-line, water-cooled, direct injection	Four cylinder, in-line, water-cooled, direct injection
Bore x stroke	mm	105×118	108×135	108×125
Displacement	L	4.1	4.95	4.95
Compression ratio		17:1	17:1	17:1
Rated power	WK	38	48	55
Lubrication system		Pressure splashed		
Lube oil brand		SAE10W-30,15W-40 (above CD grade)		
Lube capacity	L	10.46	14	14
Starting system		12V Electric starter		
Starting motor capacity		12V80Ah x2	12V80Ah x2	12V80Ah x2
Charging generator capacity	V-A	12	12	12
Battery capacity	V-Ah	12V80Ah x2	12V80Ah x2	12V80Ah x2
Fuel consumption ratio	g/KW.h	<230	<230	<230
Fuel type		0# (summer), -10# (winter), -35# (chillness) diesel		
Genset				
Panel type		4020	4020	4020
Nosie level(7)m	dB(A)	64	65	65
Fuel tank capacity	L	95	135	135
Overall dimensions	mm	2100x880x1147	2460x1000x1257	2460x1000x1257
Dry weight	kg	990	1160	1180

Technical Data

		KDE75SS3	KDE100SS3	KDE120SS3
		50	50	50
		70	90	110
		56	72	88
		75	100	120
		60	80	96
		230/400	230/400	230/400
		101.1	129.9	158.8
		1500	1500	1500
		LA224E	LA224G	LA274C
		4	4	4
		Three Phase	Three Phase	Three Phase
		Brushless self-excited constant voltage (AVR)		
		0.8	0.8	0.8
		H	H	H
		LD4295	LD4298	LD4410
		Four cylinder, in-line, water-cooled, direct injection	Four cylinder, in-line, water-cooled, direct injection	Four cylinder, in-line, water-cooled, direct injection
		108×125	108×125	108×125
		4.58	4.58	4.58
		17:1	17:1	17:1
		60	80	100
		Pressure splashed	Pressure splashed	Pressure splashed
		SAE10W-30,15W-40 (above CD grade)		
		14	14	14
		12V Electric starter		
		12V80Ah x2	12V80Ah x2	12V60Ah x2
		12	12	12
		12V80Ah x2	12V80Ah x2	12V60Ah x2
		<230	<230	<230
		0# (summer), -10# (winter), -35# (chillness) diesel		
		4020	4020	4020
		65	68	68
		135	135	300
		2460x1000x1257	2560x1000x1257	2900x1090x1650
		1200	1270	1690

PORTABLE WELDING GEN SERIES

Do more with the portable power

COVAX portable welding generator series is a dual use unit featuring welding and power generation. Power ranges from 2 to 10 kVA. Welding current ranges from 160 to 450A.

This generator set is developed upon COVAX's latest technology built upon COVAX's 10 year history of manufacturing welders/generators.

The power supply for welding is self-driven. It can be used in a host of applications- railroading, highway construction, port operations, oil fields, chemical plants, building construction, agriculture and many more. Self-excitation and constant voltage enhance the generator performance.

The lightweight and compact design facilitates on-site maneuverability and saves storage space.



FEATURES & BENEFITS

One unit, dual function

COVAX original technology has been utilized to develop and advanced product with dual functions- welding and power generation.

Simultaneous use

Generating and welding can be performed simultaneously. The welding operation won't impact the waveform and voltage of the generator.

Perfect welding

The unit can achieve a perfect waveform of the welding voltage by utilizing IGBT and PWM technology. The non-fluctuating welding current produces a high quality welding operation.

Excellent electricity

A new AVR (automatic voltage regulator) and damper winding further enhance the electricity production with extremely low voltage fluctuation and minimum waveform distortion.

Easy maneuver electricity

A lightweight and compact design improves on-site maneuverability and saves storage space. It has four durable casters to facilitate movement.

Wide application

The welding arc is super smooth to get perfect quality welds. The welding current regulation is broad to accommodate a variety of welding rods.



Technical Data

Generating set		KDE7000EW	KDE7000TW	
Generator Welder	Generating	Rated Frequency (Hz)	50	50
		Rated power (Kw)	2	2
		Rated Voltage (V)	230	230
		Rated current (A)	8.7	8.7
		Rated rotation speed (r/m in)	3000	3000
		Phase No.	Single	Single
		Power factor (CosΦ)	1	1
	Welding	Rated welding voltage (V)	50-65	50-65
		Rated welding current (A)	160	160
		Welding voltage (V)	25-30	25-30
		Welding load continuous ratio	60%	60%
		Welding current adjustment	50-180	50-180
	Electrode diameter (mm)	1.6-4.0	1.6-4.0	
	Excitation mode	self excitation and automatic voltage adjusting (AVR)		
Rectifying mode	IGB+three-phase rectify bridge (PWM)			
Connection mode	Single bearing			
Insulation grade	F	F		
Pole number	2	2		
Engine	Engine model	KM186FAE	KM186FAE	
	Engine type	Inlined single, 4-stroke, air cooled		
	Displacement (L)	0.418	0.418	
	Bore x stroke (mm)	86X72	86X72	
	Compression ratio	19.5:1	19.5:1	
	Rated power (kW)	5.7/3000	5.7/3000	
	Lubrication system	Pressure splashed		
	Lube oil brand	CD grade or 10W-30, 15W-40		
	Lube capacity (L)	1.65	1.65	
	Starting system	Electric starter		
	Battery Capacity (V-Ah)	12V-36Ah		
Fuel type	0 # (summer), -10 # (winter), -35 # (chillness) light diesel			
Generator Set	Fuel consuming (g/kW.h)	275	275	
	Fuel tank capacity (L)	12.5	14.5	
	Continuous running time(hr)	6.5	7	
	Noise dB(A)7m	75	70	
	Structure type	EW: Open-frame, TW: Silent		
	Overall dimensions (mm)(LxWxH)	710x515x630	915x547x742	
	Dry weight (kg)	120	175	

	KDE7500EW	KDE8500EW	KDE8500TW
	50	50	50
	4.2	2	2
	230	230	230
	19.6	8.7	8.7
	3000	3000	3000
	Single	Single	Single
	1	1	1
	50-65	50-65	50-65
	160	200	200
	25-30	25-30	25-30
	60%	60%	60%
	50-180	70-220	70-220
	1.6-4.0	1.6-5.0	1.6-5.0
	self excitation and automatic voltage adjusting (AVR)		
	IGB+three-phase rectify bridge (PWM)		
	Single bearing		
	F	F	F
	2	2	2
	KM186FAE	KM192FE	KM192FE
	Inlined single, 4-stroke, air cooled		
	0.418	0.499	0.499
	86X72	92x75	92x75
	19.5:1	19.5:1	19.5:1
	5.7/3000	7.6/3000	7.6/3000
	Pressure splashed		
	CD grade or 10W-30, 15W-40		
	1.65	1.65	1.65
	Electric starter		
	12V-36Ah		
	0 # (summer), -10 # (winter), -35 # (chillness) light diesel		
	275	265	265
	12.5	12.5	14.5
	6.5	6.5	7
	75	75	70
	EW: Open-frame, TW: Silent		
	710x515x630	750x515x640	915x547x742
	120	130	185

PORTABLE LIGHT TOWER

The COVAX mobile light towers

After developing various backup and prime power systems, COVAX is increasing its power systems offerings and introducing innovative products for industry.

The COVAX mobile light towers can be utilized in a variety of situations such as construction sites, disaster recovery, industry, mining, and event lighting.

COVAX light towers are equipped with COVAX high quality digital generators. The new mobile light towers feature high wind resistance and a wide area of illumination.

COVAX' s compact mobile light towers are designed for a compact and efficient installation. You can choose the suitable power and light levels to fit your requirements.

Both the telescoping mast and illumination angle of the lights can be easily adjusted giving the operator great flexibility in lighting the area. The tower is designed to be user friendly in terms of both operation and handling.



FEATURES & BENEFITS

Wide lighting area

COVAX's light tower parallel lamp structure is more efficient than competitive lighting systems and provides up to 50% more light output. The unique top structure of the lamp shade directs up to 10% of previously wasted upward light directly to the work site.

Easy for transportation

The light tower is equipped with automotive quality wheels and tires suitable for any road surface. A connecting hitch and steel cable is provided for connecting to towing vehicles.

Dual application

The generator inside the light tower can be used as back-up power for emergency applications.

Advantages of halide lamp

The internal structure of the metal halide lamp is unique. The light is produced through the discharge of its internal gases. There is no filament to break or deteriorate over time and no bulb to throw away.

Safe operation

The mast incorporates a safety feature by not permitting the mast to be raised unless the footbrake is on. If the footbrake is released, the mast will automatically lower to the travel position. The light tower trolley has stabilizers to keep the light tower steady on all surfaces.

TECHNICAL DATA

Floodlight model		KLB400-4	KLB1000-2	KLB1000-4
Lamp power (W) -No. of lamp	W	400-4	1000-2	1000-2
Total power of the lamps	W	1600	2000	4000
Luminous flux	lm	144000	220000	440000
Mast		4 stages lifting mast	4 stages lifting mast	4 stages lifting mast
Lifting limit of the mast		2100-4900	2100-4900	2100-4900
Dimensions (LxWxH) (after retreating)	mm	1180x790x2100	1180x790x2100	1180x790x2100
Inclination		≤10 degrees	≤10 degrees	≤10 degrees
Windproof ability		≤6 grade	≤6 grade	≤6 grade
Dry weight	kg	135	140	135
Lamp base type		Metal halide	Metal halide	Metal halide
Standard genset				
Model		IG3000	IG3000	IG3000
Prime power	W	2800	2800	5500
Standby power	W	3000	3000	6000
Overall dimensions	mm	685×430×495	685×430×495	802×495×655