

PORTABLE POWER SERIES



Diesel engine
General generator set
Light tower
Water pump



KNOXGEN

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Portable Power Series

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ABOUT KNOXGEN

KNOXGEN, POWER YOUR LIFE.

KNOXGEN is a worldwide company specialized in manufacturing wide range of generator sets, from 3Kva to 4000kVA. In the genset area, we offer solutions for every kind of power supply demands; energy where the national network is not available, energy where it is necessary to operate without interruption, energy for home, working and entertaining.

KNOXGEN owns high technological experience and vertically integrated manufacturing process which ensure all our products are designed and delivered with top quality and high performance.

All our products are dedicated to the most demanding markets, as a true symbol of our experience build under one mission: to offer the best value of generator sets by a strong strategic relationship with first level components partners.

We are with you in every kind of power situation.



- Full range of diesel generator sets power from 3kva-4000kva.
- Professional power solutions for commercial, residential, industrial applications.
- Engineering and project management including complete design and installation services.
- Customized service according to customers'specific demands.
- Updated innovation and continuous improvement.
- Full-line original spare parts for all your demands.
- 24/7/365 uninterrupted service and support.



KNOXGEN OFFER



- Cooperate with the world renowned manufacturer of diesel engine, alternator, controller.
- Use the best quality components and material to produce KNOXGEN generator sets.
- Updated technical innovation by KNOXGEN professional R&D team.
- Strong marketing and sale network.
- Complete line of accessories and spare parts with warranty.
- Continuous improvement of products.
- Strict quality control program: including quality control (IQC)+project inspection+test inspection+delivery inspection.

What makes KNOXGEN so significant in generators

KNOXGEN is the best choice in portable power, we have the right generator to meet your portable power needs. Outstanding serviceability and reliable performance in a simple, easy-to-use design make Knoxgen generators the best choice in portable power.

Compared with traditional models, KNOXGEN 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.



PORTABLE GENERATOR

Stronger Power

KNOXGEN's 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.

Robust and Durable

Compact, robust and resilient structures ensure long unit life and quiet operation. Thicker paint treatments resist the wear and tear caused by extreme environmental conditions.

Convenient Maintenance

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

Noise Reduction

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.

Easily Portable

A compact design makes it easy to fit into tight confines and still provide optimum performance.

SMALL ENGINE

SINGLE-CYLINDER ENGINE

- Steady and reliable performance.
- Advanced noise reduction design
- Perfect injection technology
- Unique transmission system
- Quick&easy starting

More simple, reliable and technological

Based on years of production and sales experience, the core concept of KNOXGEN is to solve power problems for clients with advanced technology. In the perspective of users, the products of KNOXGEN are characterized by low fuel consumption and low maintenance cost. KNOXGEN engines comply with the latest emissions regulations through our original advanced diesel engine technologies.



FEATURES & BENEFITS

Perfect injection technology

KNOXGEN independently developed precise injection system, ensure efficient fuel injection. High precision injection pump and direct injection system make fuel consumption reach the ideal level. Good air intake and sufficient combustion make its emission lower to meet EPA standard.

Advanced noise reduction design

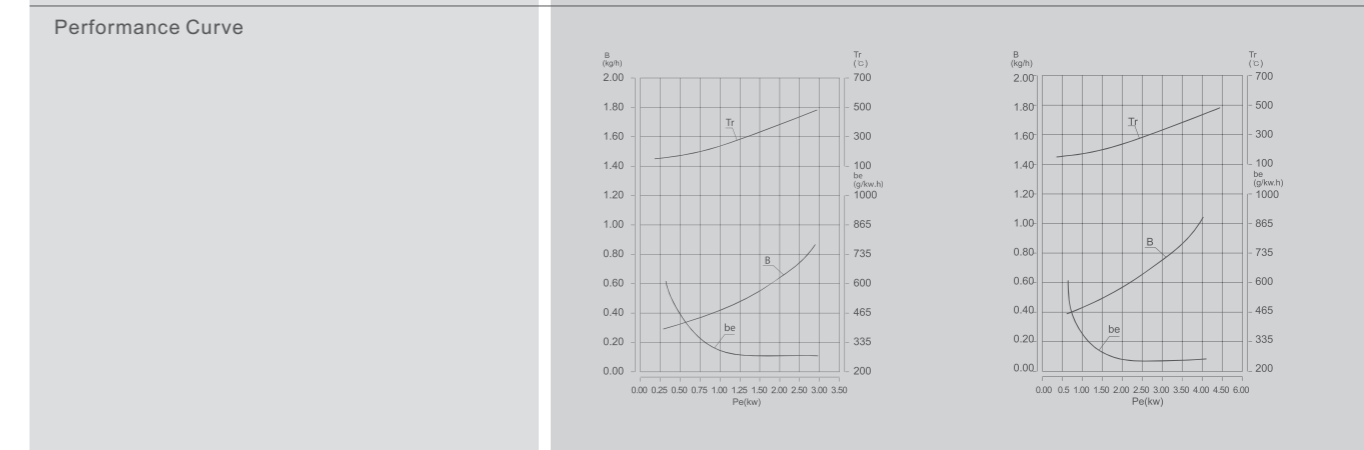
The efficient muffler reduces the exhaust noise significantly. Large air filters minimize intake noise. The engine noise is further reduced by the high strength cylinder block, cylinder head cover and the reasonable timing structure of intake and exhaust valves.

Unique transmission system

The new generation of KNOXGEN portable diesel engine adopts well-designed gear transmission mechanism, which can greatly reduce vibration and noise.



Diesel Engine		KD170F/FE	KD178F/FE
Type		Single-cylinder, vertical, air-cooled, four-stroke, direct injection	Single-cylinder, vertical, air-cooled, four-stroke, direct injection
Bore× Stroke	mm	70×55	78×62
Displacement	L	0.211	0.296
Compression ratio		20	20
Rated power/Rated speed	kW/r/min	2.5/3000 2.8/3600	3.68/3000 4/3600
The lowest speed at zero load	r/min	≤1300	≤1300
Lubricating system		Pressure splashed	Pressure splashed
Starting system		Recoil starter or Electric starter	Recoil starter or Electric starter
Rotation direction (face to the output axle)		Anticlockwise	Anticlockwise
Fuel tank capacity	L	2.5	3.5
Fuel consumption	(g/kW.h)/r/min	280.23000 288.3/3600	276.1/3000 285.6/3600
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	1.1
Starting Motor Capacity	V, Kw	12V 0.8kW	12V 0.8kW
Charging Generator Capacity	V, A	12V 3A	12V 3A
Accumulator Capacity	V, Ah	12V 24Ah-36Ah	12V 24Ah-36Ah
Overall dimension(L×W×H)	mm	335×380×415	385×420×450
Dry weight	kg	≤27	≤33



TECHNICAL DATA



Diesel Engine		KD186F/FE	KD186FA/FAE
Type		Single-cylinder, vertical, air-cooled, four-stroke, direct injection	Single-cylinder, vertical, air-cooled, four-stroke, direct injection
Bore× Stroke	mm	86×70	86×72
Displacement	L	0.406	0.418
Compression ratio		19	19
Rated power/Rated speed	kW/r/min	5.7/3000 6.3/3600	6.0/3000 6.5/3600
The lowest speed at zero load	r/min	≤1300	≤1300
Lubricating system		Pressure splashed	Pressure splashed
Starting system		Recoil starter or Electric starter	Recoil starter or Electric starter
Rotation direction (face to the output axle)		Anticlockwise	Anticlockwise
Fuel tank capacity	L	5.5	5.5
Fuel consumption	(g/kW.h)/r/min	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
Lube oil capacity	L	1.65	1.65
Starting Motor Capacity	V, Kw	12V 0.8kW	12V 0.8kW
Charging Generator Capacity	V, A	12V 3A	12V 3A
Accumulator Capacity	V, Ah	Above 12V 36Ah	Above 12V 36Ah
Overall dimension(L×W×H)	mm	420×440×495	420×440×495
Dry weight	kg	≤47	≤47
Performance Curve			

TECHNICAL DATA



Diesel Engine		KD188FB/FBE	KD192FB/FBE
Type		Single-cylinder, vertical, air-cooled, four-stroke, direct injection	Single-cylinder, vertical, air-cooled, four-stroke, direct injection
Bore× Stroke	mm	88×75	92×75
Displacement	L	0.456	0.498
Compression ratio		19	19
Rated power/Rated speed	kW/r/min	6.8/3000 7.5/3600	7.8/3000 8.5/3600
The lowest speed at zero load	r/min	≤1300	≤1300
Lubricating system		Pressure splashed	Pressure splashed
Starting system		Recoil starter or Electric starter	Recoil starter or Electric starter
Rotation direction (face to the output axle)		Anticlockwise	Anticlockwise
Fuel tank capacity	L	5.5	5.5
Fuel consumption	(g/kW.h)/r/min	276/3000 286/3600	276/3000 286/3600
Lube oil type		CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40
Lube oil capacity	L	1.65	1.65
Starting Motor Capacity	V, Kw	12V 1.2kW	12V 1.2kW
Charging Generator Capacity	V, A	12V 3A	12V 3A
Accumulator Capacity	V, Ah	Above 12V 36Ah	Above 12V 36Ah
Overall dimension(L×W×H)	mm	500×460×555	500×460×555
Dry weight	kg	≤48	≤54
Performance Curve			

SMALL ENGINE

TWO-CYLINDER ENGINE

- Steady and reliable performance.
- Electric starter make starting more easily
- More compact, exact and lightweight
- Advanced noise reduction design
- Easy maintenance

The V-type twin cylinder water-cooling diesel engine is compact and lightweight, whose rigidity has been greatly enhanced.

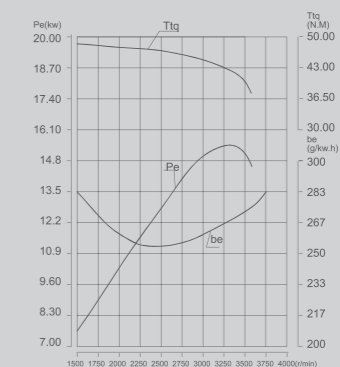
It is featured by reliable and stable performance, easy disassembly, and maintenance.

Application of cylinder gear driving device leads to a more compact, precise, and reliable structure.



Diesel Engine		KD2V80
Type		Two cylinder, V-twin, water-cooled, four-stroke
Bore× Stroke	mm	80×79
Displacement	L	0.794
Compression ratio		23
Rated power/Rated speed	kW/r/min	12.5/3000 14.5/3600
The lowest speed at zero load	r/min	≤900
Lubricating system		Pressure splashed
Starting system		Electric starter
Rotation direction (face to the output axle)		Anticlockwise
Fuel tank capacity	L	0#, -10#, -20# diesel
Fuel consumption	(g/kW.h)/r/min	285/3000 297/3600
Lube oil type		CD grade or SAE 10W-30, 15W-40
Lube oil capacity	L	2.27
Starting Motor Capacity	V, Kw	12V 1.4kW
Charging Generator Capacity	V, A	12V 20A
Accumulator Capacity	V, Ah	12V 60Ah
Overall dimension(L×W×H)	mm	616×486×528
Dry weight	kg	57.5

Performance Curve



FEATURES & BENEFITS

- 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.
- Electric starter make starting more easily.
- Easy maintenance

TECHNICAL DATA



Diesel Engine		KD2V86	KD2V88
Type		Two cylinder, V-twin, air cooled, four stroke, OHV, direct injection	Two cylinder, V-twin, air-cooled, four stroke, direct injection
Bore× Stroke	mm	86×72	88×75
Displacement	L	0.836	0.912
Compression ratio		19	20
Rated power/Rated speed	kW/r/min	11/3000 12/3600	13/3000 14/3600
The lowest speed at zero load	r/min	≤1300	≤1000
Lubricating system		Pressure splashed	Pressure splashed
Starting system		Electric starter	Electric starter
Rotation direction (face to the output axle)		Anticlockwise	Counterclockwise
Fuel tank capacity	L	0#,-10#,-20# diesel	0#,-10#,-20# diesel
Fuel consumption	(g/kW.h)/r/min	273/3000 285/3600	275/3000 280/3600
Lube oil type		CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40
Lube oil capacity	L	4	2.3
Starting Motor Capacity	V, Kw	12V 1.4kW	12V 1.4kW
Charging Generator Capacity	V, A	12V 20A	12V 20A
Accumulator Capacity	V, Ah	12V 60Ah	12V 60Ah
Overall dimension(L×W×H)	mm	449×510×591	630×550×730
Dry weight	kg	≤64	60
Performance Curve			

TECHNICAL DATA



Diesel Engine		KD292F	KD2V95F
Type		Two cylinder, V-twin, air-cooled, four stroke, direct injection	V-twin, 4-stroke, Air Cooled
Bore× Stroke	mm	92×75	95×88
Displacement	L	0.997	1.247
Compression ratio		20	20
Rated power/Rated speed	kW/r/min	14/3000 15/3600	19/3000 20/3600
The lowest speed at zero load	r/min	≤1000	≤1000
Lubricating system		Pressure splashed	Pressure splashed
Starting system		Electric starter	Electric starter
Rotation direction (face to the output axle)		Anticlockwise	Anticlockwise
Fuel tank capacity	L	0#,-10#,-20# diesel	0#,-10#,-20# diesel
Fuel consumption	(g/kW.h)/r/min	260/3000 277/3600	250/3000 265/3600
Lube oil type		CD grade or SAE 10W-30, 15W-40	CD grade or SAE 10W-30, 15W-40
Lube oil capacity	L	2.75	3.8
Starting Motor Capacity	V, Kw	12V 1.4kW	12V 1.4kW
Charging Generator Capacity	V, A	12V 20A	12V 20A
Accumulator Capacity	V, Ah	12V 60Ah	12V 60Ah
Overall dimension(L×W×H)	mm	630×550×730	630×550×730
Dry weight	kg	85	96
Performance Curve			

GENERAL GENERATOR SET

SINGLE CYLINDER GENERATING SET

KNOXGEN is the best choice in portable power, we have the right generator to meet your portable power needs.

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



FEATURES & BENEFITS

Stronger Power

KNOXGEN's 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.

Robust and Durable

Compact, robust and resilient structures ensure long unit life and quiet operation. Thicker paint treatments resist the wear and tear caused by extreme environmental conditions.

Convenient Maintenance

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

Noise Reduction

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.

Easily Portable

A compact design makes it easy to fit into tight confines and still provided optimum performance.

TECHNICAL DATA



MODEL		KDE2200E		KDE3500E		KDE3500T	
GENERATOR SET	Rated frequency	50	60	50	60	50	60
	Rated power	1.7	2	2.8	3.0	2.8	3.0
	Max. power	2	2.2	3.0	3.3	3.0	3.3
	Rated voltage	115/230	120/240	115/230	120/240	115/230	120/240
	Rated current	14.8/7.4	16.7/8.3	24.3/12.2	25.0/12.5	24.3/12.2	25.0/12.5
	Rated rotation speed	3000	3600	3000	3600	3000	3600
	Generator model	KT2		KT3		Kt3	
Pole No.	2		2		2		
Phase number	Single phase		Single phase		Single phase		
Excitation mode	Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)		
Power factor	1.0		1.0		1.0		
Insulation grade	F		F		F		
ENGINE	Engine model	KD170FG		KD178FG		KD178FG	
	Structure type	Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected	
	Bore x stroke	70×55		78×62		78×62	
	Displacement	211		296		296	
	Compression ratio	20:1		20:1		20:1	
	Rated power	2.5	2.8	3.68	4	3.68	4
	Lubrication system	Pressure splashed		Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	Recoil starter		Recoil starter		Recoil starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
GENSET	Panel type	General panel		General panel		General panel	
	Noise(7m)	77		77		72	
	Overall dimensions	640×480×530		655×480×530		950×565×750	
	Net weight	53		65		145	

TECHNICAL DATA



MODEL		KDE6500X/E		KDE6700T/TA		KDE8700T/TA	
GENERATOR SET	Rated frequency	50	60	50	60	50	60
	Rated power	4.5	5	4.5	5	6	6.6
	Max. power	5	5.5	5	5.5	6.6	7.3
	Rated voltage	115/230	120/240	115/230	120/240	115/230	120/240
	Rated current	39.1/19.6	41.7/20.8	39.1/19.6	41.7/20.8	52/26	55/27.5
	Rated rotation speed	3000	3600	3000	3600	3000	3600
	Generator model	KT5		KT5		KT8	
Pole No.	2		2		2		
Phase number	Single phase		Single phase		Single phase		
Excitation mode	Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)		
Power factor	1.0		1.0		1.0		
Insulation grade	F		F		F		
ENGINE	Engine model	KD186FAG		KD186FAGET		KD192FGET	
	Structure type	Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected	
	Bore x stroke	86×72		86×72		92×75	
	Displacement	418		418		499	
	Compression ratio	19:1		19:1		19:1	
	Rated power	5.7	6.3	5.7	6.3	7.6	8.6
	Lubrication system	Pressure splashed		Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	Recoil starter		12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
GENSET	Panel type	General panel		General panel/Smart Control		General panel/Smart Control	
	Noise(7m)	77		72		72	
	Overall dimensions	720×492×655		930×530×740		980×530×740	
	Net weight	95		155		175	

TECHNICAL DATA



MODEL		KDE9000E/EA		KDE9000T/TA		KDE10000T/TA
GENERATOR SET	Rated frequency	50	60	50	60	50
	Rated power	6.5	7.0	6.5	7.0	7.5
	Max. power	7.0	7.5	7.0	7.5	8
	Rated voltage	115/230	120/240	115/230	120/240	115/230
	Rated current	56.5/28.3	58.3/29.2	56.5/28.3	58.3/29.2	65.2/32.6
	Rated rotation speed	3000	3600	3000	3600	3000
	GENERATOR	Generator model	KT9		KT9	
Pole No.		2		2		2
Phase number		Single phase		Single phase		Single phase
Excitation mode		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)
Power factor		1.0		1.0		1.0
Insulation grade		F		F		F
ENGINE	Engine model	KD195FE		KD195FE		KD1100FE
	Structure type	Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected
	Bore x stroke	95×75		95×75		100×85
	Displacement	531		531		668
	Compression ratio	19:1		19:1		19.5:1
	Rated power	8.3	9.0	8.3	9.0	9.6
	Lubrication system	Pressure splashed		Pressure splashed		Pressure splashed
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40
	Starting system	12V Electric starter		12V Electric starter		12V Electric starter
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)
GENSET	Panel type	General panel/Smart Control		General panel/Smart Control		General panel/Smart Control
	Noise(7m)	77		72		68
	Overall dimensions	740×505×670		950×565×750		1150×650×900
	Net weight	109		163		210

TECHNICAL DATA



MODEL		KDE6500X3/E3		KDE6500T3	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	5.5	6.3	5.5	6.3
	Max. power	6	7	6	7
	Rated voltage	400/230	416/240	400/230	416/240
	Rated current	7.9	8.7	7.9	8.7
	Rated rotation speed	3000	3600	3000	3600
	GENERATOR	Generator model	KTS5		KTS5
Pole No.		2		2	
Phase number		Three-phase		Three-phase	
Excitation mode		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)	
Power factor		0.8(lag)		0.8(lag)	
Insulation grade		F		F	
ENGINE	Engine model	KD186FAG		KD186FAGET	
	Structure type	Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected	
	Bore x stroke	86×72		86×72	
	Displacement	418		418	
	Compression ratio	19:1		19:1	
	Rated power	5.7	6.3	5.7	6.3
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	Recoil starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
GENSET	Panel type	General panel		General panel	
	Noise(7m)	77		72	
	Overall dimensions	720×492×655		910×530×740	
	Net weight	95		148	

TECHNICAL DATA



MODEL		KDE6700T3/TA3		KDE8700T3/TA3	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	5.5	6.3	7.5	8.3
	Max. power	6	7	8.3	9.1
	Rated voltage	400/230	416/240	400/230	416/240
	Rated current	7.9	8.7	10.8	11.5
	Rated rotation speed	3000	3600	3000	3600
	Generator model	KTS5		KTS8	
Pole No.	2		2		
Phase number	Three-phase		Three-phase		
Excitation mode	Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)		
Power factor	0.8(lag)		0.8(lag)		
Insulation grade	F		F		
ENGINE	Engine model	KD186FAGET		KD192FGET	
	Structure type	Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected	
	Bore x stroke	92×75		92×75	
	Displacement	499		499	
	Compression ratio	19:1		19:1	
	Rated power	5.7	6.3	7.6	8.6
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
	GENSET	Panel type	General panel/Smart Control		General panel/Smart Control
Noise(7m)		72		72	
Overall dimensions		930×530×740		950×530×740	
Net weight		158		165	

TECHNICAL DATA



MODEL		KDE9000E3/EA3		KDE9000T3/TA3		KDE10000T3/TA3	
GENERATOR SET	Rated frequency	50	60	50	60	50	
	Rated power	8.0	8.7	8.0	8.7	9.3	
	Max. power	8.7	9.3	8.7	9.3	10	
	Rated voltage	230/400	127/220	230/400	127/220	400/230	
	Rated current	11.5	22.8	11.5	22.8	13.4	
	Rated rotation speed	3000	3600	3000	3600	3000	
	Generator model	KT9S		KT9S		KT10	
Pole No.	2		2		2		
Phase number	Three-phase		Three-phase		Three-phase		
Excitation mode	Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)		
Power factor	0.8(lag)		0.8(lag)		0.8(lag)		
Insulation grade	F		F		F		
ENGINE	Engine model	KD195FE		KD195FE		KD1100FE	
	Structure type	Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected	
	Bore x stroke	95×75		95×75		100×85	
	Displacement	531		531		668	
	Compression ratio	19:1		19:1		19.5:1	
	Rated power	8.3	9.0	8.3	9.0	9.6	
	Lubrication system	Pressure splashed		Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
	GENSET	Panel type	General panel/Smart Control		General panel/Smart Control		General panel/Smart Control
Noise(7m)		77		72		68	
Overall dimensions		740×505×670		950×565×750		1150×650×900	
Net weight		109		163		210	

GENERAL GENERATOR SET

SUPER SILENT SERIES



Clean, reliable, super silent and efficient power for you.

Compared with traditional models, KDE7000STA series 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.

FEATURES & BENEFITS

Stronger Power

KNOXGEN's 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 alternators enhances the generating efficiency.

Remarkable noise reduction

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

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.

Digital controller

KP310V1.0 digital controller can make RS232 serial communication with the master machine, realizing starting and stopping gensets and displaying real-time running data through the master machine.



TECHNICAL DATA



MODEL		KDE7000STA		KDE7000STA3	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	4.2	4.6	5.25	5.75
	Max. power	4.6	5	6.25	6.9
	Rated voltage	115/230	120/240	416/240	400/230
	Rated current	36.5/18.3	38.3/19.2	8	9.1
	Rated rotation speed	3000	3600	3600	3000
GENERATOR	Generator model	Kt5		Kt5	
	Pole No.	2		2	
	Phase number	Single phase		Three-phase	
	Excitation mode	Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)	
	Power factor	1.0		0.8(lag)	
	Insulation grade	F		F	
ENGINE	Engine model	KD186FAGET-1		KD186FAGET-1	
	Structure type	Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected		Single-cylinder, vertical, 4-stroke, air-cooled, direct-injected	
	Bore x stroke	86×72		86×72	
	Displacement	418		418	
	Compression ratio	19:1		19:1	
	Rated power	5.7	6.3	5.7	6.3
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
	GENSET	Panel type	Smart Control		Smart Control
Noise(7m)		66		66	
Overall dimensions		870×645×710		870×645×710	
Net weight		175		175	

GENERAL GENERATOR SET

TWO CYLINDER GENERATING SET

KNOXGEN is the best choice in portable power, we has the right generator to meet your portable power needs.

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



FEATURES & BENEFITS

Noise Reduction

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.

Stronger Power

KNOXGEN's 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.

Robust and Durable

Compact, robust and resilient structures ensure long unit life and quiet operation. Thicker paint treatments resist the wear and tear caused by extreme environmental conditions.

Convenient Maintenance

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

Easily Portable

A compact design makes it easy to fit into tight confines and still provided optimum performance.

TECHNICAL DATA



MODEL		KDE12EA		KDE12STA	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	8.5	9	8.5	9
	Max. power	9.5	10	9.5	10
	Rated voltage	115/230	120/240	115/230	120/240
	Rated current	73.9/37	75/37.5	73.9/37	75/37.5
	Rated rotation speed	3000	3600	3000	3600
	GENERATOR	Generator model	KT12		KT12
Pole No.		2		2	
Phase number		Singel phase		Singel phase	
Excitation mode		Self-exciation and constant voltage(with AVR)		Self-exciation and constant voltage(with AVR)	
Power factor		1.0		1.0	
Insulation grade		F		F	
ENGINE	Engine model	KD2V80G		KD2V80G	
	Structure type	V type double cylinder, 4-stroke,swirl chamber, water-cooled		V type double cylinder, 4-stroke,swirl chamber, water-cooled	
	Bore x stroke	80×79		80×79	
	Displacement	794		794	
	Compression ratio	23:1		23:1	
	Rated power	12.5	14.5	12.5	14.5
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
	GENSET	Panel type	Smart Control		Smart Control
Noise(7m)		85		72	
Overall dimensions		1030×600×650		1350×650×760	
Net weight		210		310	

TECHNICAL DATA



MODEL		KDE13000E/EA		KDE13000T/TA	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	9.5	10.0	9.5	10.0
	Max. power	10.5	11.0	10.5	11.0
	Rated voltage	115/230	120/240	115/230	120/240
	Rated current	82.6/41.3	83.3/41.6	82.6/41.3	83.3/41.6
	Rated rotation speed	3000	3600	3000	3600
	GENERATOR	Generator model	KTS13		KTS13
Pole No.		2		2	
Phase number		Single phase		Single phase	
Excitation mode		Self-exciation and constant voltage(with AVR)		Self-exciation and constant voltage(with AVR)	
Power factor		1.0		1.0	
Insulation grade		F		F	
ENGINE	Engine model	KD2V88F		KD2V88F	
	Structure type	V-twin, 4-stroke, air cooled, direct-injected		V-twin, 4-stroke, air cooled, direct-injected	
	Bore x stroke	88×75		88×75	
	Displacement	912		912	
	Compression ratio	20:1		20:1	
	Rated power	13.0	14.0	13.0	14.0
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
	GENSET	Panel type	General panel/Smart Control		General panel/Smart Control
Noise(7m)		77		72	
Overall dimensions		1000×700×820		1300×700×880	
Net weight		195/215		285/310	

TECHNICAL DATA



MODEL		KDE15000E/EA		KDE15000T/TA	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	11.0	11.5	11.0	11.5
	Max. power	12.0	12.5	12.0	12.5
	Rated voltage	115/230	120/240	115/230	120/240
	Rated current	95.6/47.8	95.8/47.9	95.6/47.8	95.8/47.9
	Rated rotation speed	3000	3600	3000	3600
	GENERATOR	Generator model	KTS15		KTS15
Pole No.		2		2	
Phase number		Single phase		Single phase	
Excitation mode		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)	
Power factor		1.0		1.0	
Insulation grade		F		F	
ENGINE	Engine model	KD292F		KD292F	
	Structure type	L-twin, 4-stroke, air-cooled, diesel engine		L-twin, 4-stroke, air-cooled, diesel engine	
	Bore x stroke	95×75		95×75	
	Displacement	997		997	
	Compression ratio	20:1		20:1	
	Rated power	14.0	15.0	14.0	15.0
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
	GENSET	Panel type	General panel/Smart Control		General panel/Smart Control
Noise(7m)		77		72	
Overall dimensions		1000×700×820		1300×700×880	
Net weight		210/230		300/325	

TECHNICAL DATA



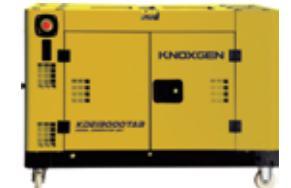
MODEL		KDE18000E/EA		KDE18000T/TA	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	15.0	15.5	15.0	15.5
	Max. power	16.0	16.5	16.0	16.5
	Rated voltage	115/230	120/240	115/230	120/240
	Rated current	130.4/65.2	129.2/64.6	130.4/65.2	129.2/64.6
	Rated rotation speed	3000	3600	3000	3600
	GENERATOR	Generator model	KTS18		KTS18
Pole No.		2		2	
Phase number		Single phase		Single phase	
Excitation mode		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)	
Power factor		1.0		1.0	
Insulation grade		F		F	
ENGINE	Engine model	KD2V95F		KD2V95F	
	Structure type	V-twin, 4-stroke, air cooled, direct-injected		V-twin, 4-stroke, air cooled, direct-injected	
	Bore x stroke	95×88		95×88	
	Displacement	1247		1247	
	Compression ratio	20:1		20:1	
	Rated power	19.0	20.0	19.0	20.0
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
	GENSET	Panel type	General panel/Smart Control		General panel/Smart Control
Noise(7m)		77		72	
Overall dimensions		1100×700×820		1400×700×880	
Net weight		230/250		320/345	

TECHNICAL DATA



MODEL		KDE12EA3		KDE12STA3	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	10	11.5	10	11.5
	Max. power	11	12.65	11	12.65
	Rated voltage	400/230	416/240	400/230	416/240
	Rated current	14.4	16	14.4	16
	Rated rotation speed	3000	3600	3000	3600
	GENERATOR	Generator model	KTS12		KTS12
Pole No.		2		2	
Phase number		Three-phase		Three-phase	
Excitation mode		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)	
Power factor		0.8(lag)		0.8(lag)	
Insulation grade		F		F	
ENGINE	Engine model	KD2V80G		KD2V80G	
	Structure type	V type double cylinder, 4-stroke,swirl chamber, water-cooled		V type double cylinder, 4-stroke,swirl chamber, water-cooled	
	Bore x stroke	80×79		80×79	
	Displacement	794		794	
	Compression ratio	23:1		23:1	
	Rated power	12.5	14.5	12.5	14.5
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
GENSET	Panel type	Smart Control		Smart Control	
	Noise(7m)	85		72	
	Overall dimensions	1030×600×650		1350×650×760	
	Net weight	210		310	

TECHNICAL DATA



MODEL		KDE13000E3/EA3		KDE13000T3/TA3	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	11.9	12.5	11.9	12.5
	Max. power	13.1	13.8	13.1	13.8
	Rated voltage	230/400	127/220	230/400	127/220
	Rated current	17.2	32.8	17.2	32.8
	Rated rotation speed	3000	3600	3000	3600
	GENERATOR	Generator model	KT13S		KT13S
Pole No.		2		2	
Phase number		three phase		three phase	
Excitation mode		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)	
Power factor		0.8		0.8	
Insulation grade		F		F	
ENGINE	Engine model	KD2V88F		KD2V88F	
	Structure type	V-twin, 4-stroke, air cooled, direct-injected		V-twin, 4-stroke, air cooled, direct-injected	
	Bore x stroke	88×75		88×75	
	Displacement	912		912	
	Compression ratio	20:1		20:1	
	Rated power	13.0	14.0	13.0	14.0
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
GENSET	Panel type	General panel/Smart Control		General panel/Smart Control	
	Noise(7m)	77		72	
	Overall dimensions	1000×700×820		1300×700×880	
	Net weight	215		310	

TECHNICAL DATA



MODEL		KDE15000E3/EA3		KDE15000T3/TA3	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	13.8	14.4	13.8	14.4
	Max. power	15.0	15.6	15.0	15.6
	Rated voltage	230/400	127/220	230/400	127/220
	Rated current	19.9	37.8	19.9	37.8
	Rated rotation speed	3000	3600	3000	3600
	GENERATOR	Generator model	KT15S		KT15S
Pole No.		2		2	
Phase number		three phase		three phase	
Excitation mode		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)	
Power factor		0.8		0.8	
Insulation grade		F		F	
ENGINE		Engine model	KD292F		KD292F
	Structure type	L-twin, 4-stroke, air-cooled, diesel engine		L-twin, 4-stroke, air-cooled, diesel engine	
	Bore x stroke	95×75		95×75	
	Displacement	997		997	
	Compression ratio	20:1		20:1	
	Rated power	14.0	15.0	14.0	15.0
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
	GENSET	Panel type	General panel/Smart Control		General panel/Smart Control
Noise(7m)		77		72	
Overall dimensions		1000×700×820		1300×700×880	
Net weight		230		325	

TECHNICAL DATA



MODEL		KDE18000E3/EA3		KDE18000T3/TA3	
GENERATOR SET	Rated frequency	50	60	50	60
	Rated power	18.8	19.4	18.8	19.4
	Max. power	20.0	20.6	20.0	20.6
	Rated voltage	230/400	127/220	230/400	127/220
	Rated current	27.1	50.9	27.1	50.9
	Rated rotation speed	3000	3600	3000	3600
	GENERATOR	Generator model	KT18S		KT18S
Pole No.		2		2	
Phase number		Single phase		Single phase	
Excitation mode		Self-excitation and constant voltage(with AVR)		Self-excitation and constant voltage(with AVR)	
Power factor		0.8		0.8	
Insulation grade		F		F	
ENGINE		Engine model	KD2V95F		KD2V95F
	Structure type	V-twin, 4-stroke, air cooled, direct-injected		V-twin, 4-stroke, air cooled, direct-injected	
	Bore x stroke	95×88		95×88	
	Displacement	1247		1247	
	Compression ratio	20:1		20:1	
	Rated power	19.0	20.0	19.0	20.0
	Lubrication system	Pressure splashed		Pressure splashed	
	Lube oil brand	Above CD or SAE 10W-30, 15W-40		Above CD or SAE 10W-30, 15W-40	
	Starting system	12V Electric starter		12V Electric starter	
	Fuel type	Diesel : 0# (summer), -10# (winter), -35# (chillness)		Diesel : 0# (summer), -10# (winter), -35# (chillness)	
	GENSET	Panel type	General panel/Smart Control		General panel/Smart Control
Noise(7m)		77		72	
Overall dimensions		1100×700×820		1400×700×880	
Net weight		250		345	

LIGHT TOWER

KL06T

KL06T is the light tower which has been used for construction sites, outdoor events and industries. KL06T is the perfect solution with the 4000W metal halide light tower. The extraordinary durable, light weight and compact light tower can keep the mast vertical during transportation, which makes it safer, fast and high efficient for transportation.



FEATURES & BENEFITS

Fast and Convenient

Pneumatic shafts are adopted on access doors of both sides. Fast and convenient access to engine, generator and electrical components.

Easy Transportation

The small size KL06T allows you to load 20 units on a trailer. The lifting eye on the lifting beam facilitates easy movement of the light tower. The spring axle trailer and tow hitch meet the requirements of DOT.

Environmental Friendly and Safe

There is a spillage free frame for fluid containment. Oil & coolant drains for easy maintenance and service.

Control Panel

Independent circuit breakers of control and power panels. Hour meter and output socket.

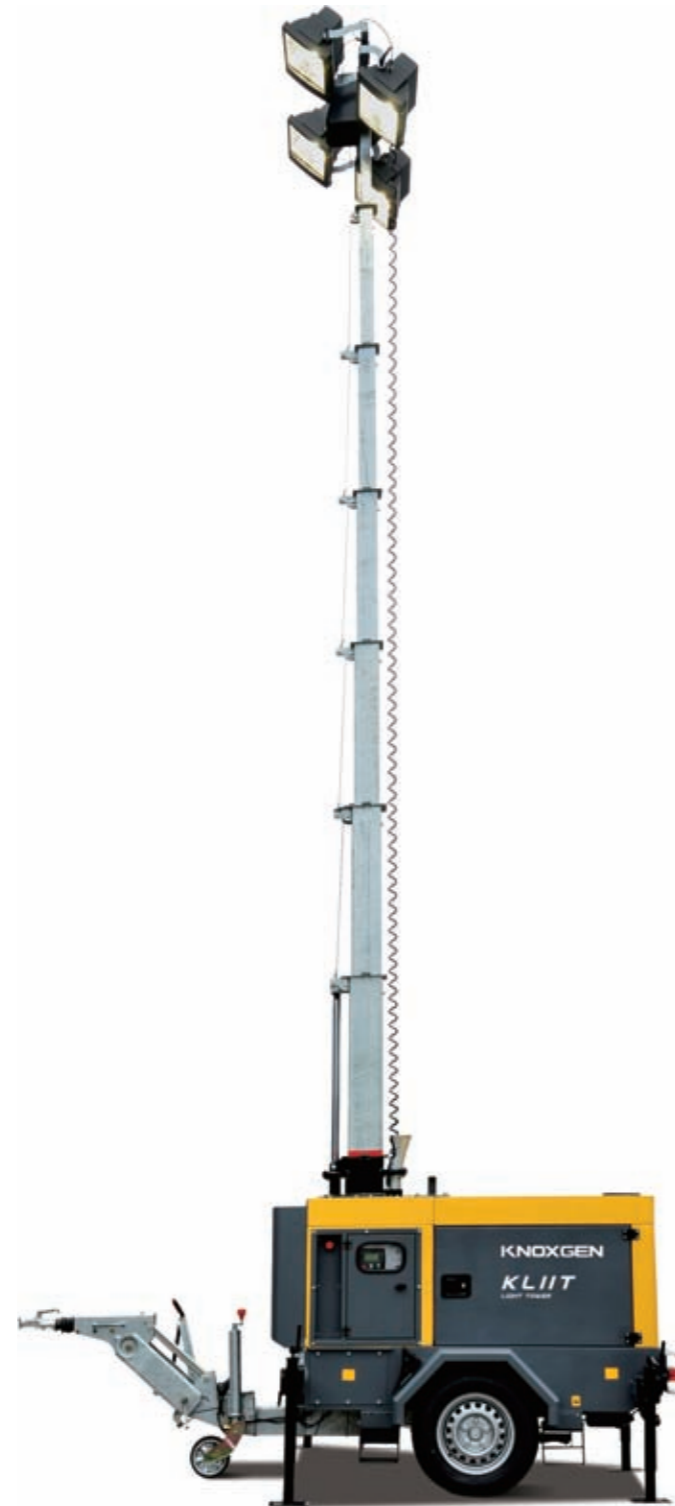
TECHNICAL DATA

Floodlight model		KL06T	
Lamp power -No.	W	1000-4	
Total power of the lamps	W	4000	
Luminous flux	lm	440000	
Structure		/	
Mast		4 stages lifting mast	
Lifting limit of the mast		2500-7500	
Dimensions(after retreating)		/	
Inclination		≤10 degrees	
Windproof ability		≤6 grade	
Genset		/	
Rated frequency	Hz	50	60
Rated power	kVA	6	7.2
Max. power	kVA	6.6	8
Rated voltage	V	230	240
Rated current	A	26	30
Engine model		KD373G	
Fuel type		Diesel	
Fuel consumption rate	L·h	2.93	
Fuel tank capacity	h	40	
Continuous running time	h	17	

LIGHT TOWER

KL11T

The KL11T gives out an impressive amount of bright light in a compact frame. The light tower is your flexible choice for dark conditions because it is easy to transport and move around on job sites. It is robust and reliable which also has several innovative features, making it safe and easy to use.



FEATURES & BENEFITS

Simple Controls

Its easy-to-use controller comes with a weekly timer to schedule up to eight lighting events. Key features include a start up sequence that avoids overloading the alternator, parameter display (AMPs, voltage, frequency, fuel levels, etc.), an event log, an emergency stop and an optional remote start.

Quick Installation

It takes only seconds to extend the KL11T's mast to its maximum height of 6.7m and to rotate it 340°. The windproof ability ≤ 6 . It has four stabilizers to make it safer.

Easy to Move

Different types of trailer, including off-road non-homologated and on-road homologated are available to fit a wide range of applications.

Reliable & Safe

The controller allows you to start the four lamps one by one to help avoid the risk of failure of the alternator excitation system. In addition, Pulse & Pause Ballast technology prevents filament damage and extends the lifetime of the lamp. As the control panel is outside the main cubicle, you don't have to contact with the engine to start operation.

Simplified Maintenance

The large service doors of KL11T provide quick access to components on both sides, including the alternator, hydraulic system, engine and electrical components. Easy to reach the drains for water and oil. An external filling point makes it faster for refueling.

Best Source of Light

The KL11T needs less power to produce more light. Metal halide lamps are one of the most efficient ways of turning electrical energy into light currently available on the market. A 98-liter fuel tank ensures 42 hours of uninterrupted operation (with only the lamps on) which helps to save time.

Robust & Environmental Friendly

The KL11T is tougher than the others because it has a heavy-duty galvanized steel canopy, a powerful KIPOR engine and a professional alternator. The polyester powder paint coating makes it can operate for 720 hours in salt spray tests. The frame of KL11T can prevent fuel from spilling out.

TECHNICAL DATA

Floodlight model		KL11T	
Lamp power -No.	W	100-4	
Total power of the lamps	W	4000	
Luminous flux	lm	360000	
Structure	Eight stages lifting mast		
Mast	/		
Lifting limit of the mast	6700		
Dimensions(after retreating)	3000x1300x2300		
Inclination	≤ 10 degrees		
Windproof ability	≤ 6 grade		
Genset	/		
Rated frequency	Hz	50	60
Rated power	kVA	8.5	10.5
Max. power	kVA	9.5	11.5
Rated voltage	V	230	240
Rated current	A	37	43.8
Engine model	KD388G		
Fuel type	Diesel		
Fuel consumption rate	L·h	3.7	
Fuel tank capacity	h	98	
Continuous running time	h	42	

WATER PUMP

DIESEL SELF PRIMING SERIES



KNOXGEN offers many different pump models for a wide variety of applications in agriculture, industry, residence, commerce and rental etc. From our clean water pumps to sewage pumps, each of our water pumps offers outstanding performance. Legendary KNOXGEN engines as the heart of pumps are easily started and provide sufficient and stable power for any time. You chase after unparalleled water pumps? KNOXGEN pumps are exactly what you want.



FEATURES & BENEFITS

Economical Running

Equipped with KNOXGEN engines, KNOXGEN pumps assure superior combustion efficiency and minimized fuel consumption.

Durable Construction

The principal parts of each pump are reinforced for superior wear resistance and corrosion resistance.

Portability

Adopted special alloy frame, largely reduced the weight and assures simple use.

Easy Maintenance

Cleaning the inside casing can be done simply by just removing a few bolts.

A Wide Range

Excellent and advanced impeller ensures water supply in a wide range.

TECHNICAL DATA



MODEL		KDP20	KDP30	KDP40	
Type		Diesel pump	Diesel pump	Diesel pump	
Water inlet pipe nominal diameter	mm	50(2")	80(3")	100(4")	
Water outlet pipe nominal diameter	mm	50(2")	80(3")	100(4")	
Rated capacity	m ³ /h	42	72	96	
Rated total head	m	26	25	26	
Max. suction head	m	8	8	8	
Self-priming time	s/4m	60	90	150	
Rotation speed	r/min	3600	3600	3600	
Engine	Engine model	KD170F	KD178F	KD186F	
	type	Single cylinder, four-stroke, direct injection, air cooled	Single cylinder, four-stroke, direct injection, air cooled	Single cylinder, four-stroke, direct injection, air cooled	
	Bore×stroke	mm	70x55	78x62	86x70
	Displacement	cm ³	211	296	406
	Max. power	KW/(r/min)	2.8/3600	4/3600	6.3/3600
	Cooling system	Air cooled	Air cooled	Air cooled	
Fuel type		0#(summer), -10#(winter), -35#(chillness) diesel	0#(summer), -10#(winter), -35#(chillness) diesel Recoil starter	0#(summer), -10#(winter), -35#(chillness) diesel	
Starter system		Recoil starter	Recoil starter	Recoil starter	
Noise (zero load to full load)	dB(A)/1m	74	76	76	
Net weight	kg	48	60	89	
Gross weight	kg	58	72	98	
Overall dimension (L x W x H)	mm	655x435x565	675x445x575	780x485x605	

WATER PUMP

DIESEL TRASH PUMP SERIES



For those applications where large solids and debris are encountered, KNOXGEN offers a line of trash pumps designed to meet the infiltration of such debris. Deep impeller vanes and a large volute discharge opening can pass suspended sticks, stones and debris without clogging the pump or harming its components. Designed to be user-friendly, these self-priming pumps remain durable under the harshest conditions.

FEATURES & BENEFITS

Reliability

Our technology absolutely sets the standard for reliability. That's precisely why many working professionals greatly prefer KNOXGEN's equipment. There's virtually no downtime and they last longer than you can even imagine.

Fuel Efficient and Quiet

The fact that our engines are exceptionally fuel efficient and quiet are two more attributes. On the job site, this counts for a lot.

Easy to Start

KNOXGEN is also easy to start and easy to use. Our sewage pump engines are perfectly matched and KNOXGEN engineered for quality and precision.

Full Frame Protection

Rugged full frame and minimize the vibration.



TECHNICAL DATA



MODEL		KDP20T	KDP30T	KDP40T	
Type		Diesel pump	Diesel pump	Diesel pump	
Water inlet pipe nominal diameter	mm	50(2")	80(3")	100(4")	
Water outlet pipe nominal diameter	mm	50(2")	80(3")	100(4")	
Rated capacity	m3/h	42	72	96	
Rated total head	m	26	25	26	
Max. suction head	m	8	8	8	
Self-priming time	s/4m	60	90	150	
Rotation speed	r/min	3600	3600	3600	
Engine	Engine model	KD170F	KD178F	KD186F	
	type	Single cylinder, four-stroke, direct injection, air cooled	Single cylinder, four-stroke, direct injection, air cooled	Single cylinder, four-stroke, direct injection, air cooled	
	Bore×stroke	mm	70x55	78x62	86x70
	Displacement	cm ³	211	296	406
	Max. power	KW/(r/min)	2.8/3600	4/3600	6.3/3600
	Cooling system	Air cooled	Air cooled	Air cooled	
Fuel type		0#(summer), -10#(winter), -35#(chillness) diesel	0#(summer), -10#(winter), -35#(chillness) diesel	0#(summer), -10#(winter), -35#(chillness) diesel	
Starter system		Recoil starter	Recoil starter	Recoil starter	
Noise (zero load to full load)	dB(A)/1m	74	76	76	
Net weight	kg	48	60	89	
Gross weight	kg	58	72	98	
Overall dimension (L x W x H)	mm	655x435x565	675x445x575	780x485x605	

DIESEL WELDING GENERATOR SET

The welding and generating set is developed upon Knoxgen's latest technology. 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.



FEATURES & BENEFITS

One Unit, Dual Function

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

Simultaneous Use

Generating and welding can be operated simultaneously, while welding operation won't impact an influence on the waveform and voltage of the generating operation.

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.

High Quality Power

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

TECHNICAL DATA

Type		KDE5000XW		KDE5000EW	
Ratedfrequency	Hz	50	60	50	60
Ratedpower	kW	2.0	2.2	2.0	2.2
Ratedvoltage	V	115/230	120/240	115/230	120/240
Ratedcurrent	A	17.4/8.7	18.3/9.2	17.4/8.7	18.3/9.2
Ratedrotationspeed	r/min	3000	3600	3000	3600
Phase No.		Single-phase three-loop		Single-phase three-loop	
Power factor	cosφ	1.0		1.0	
Welding					
Ratedwelding voltage	V	65-70		65-70	
Ratedweldingcurrent	A	160		160	
Welding voltage	V	25-30		25-30	
Welding load continous ratio		60%		60%	
Welding current adjustment range	A	50-180		50-180	
Electrode diameter	mm	1.6-4.0		1.6-4.0	
Excitation mode		Separate excitation+AVR voltage regulator			
Recifying mode		Diode		Diode	
Connection mode		Drive shaft ragid connection		Drive shaft ragid connection	
Insulation grade		B		B	
Pole number		2		2	
Engine					
Engine model		KM186FAGXW		KM186FAGEW	
Engine type		Single-cylinder, four-stroke, air-cooled,directed injection, diesel engine			
Displacement	L	0.418		0.418	
Bore x stroke	mm	1-86x72		1-86x72	
Compressionratio		19:1		19:1	
Ratedpower	kW	5.7	6.3	5.7	6.3
Lubrication system		Pressure splashed		Pressure splashed	
Lube oil brand		SF SAE10W-30, 15W-40			
Lube capacity	L	1.65		1.65	
Starting system		Recoil starter		Recoil starter or 12v electric starter	
Battery capacity	V-Ah	-		12V-36Ah	
Fuel consumption ratio	g/KW.h	275.1	281.5	275.1	281.5
Fuel type		0#(summer), -10#(winter),-35#(chill cold) diesel			
Generator set					
Fuel tank capacity	L	13.5		13.5	
Continous running time	hr	6		6	
Noise	dB(A)/7m	77		77	
Structure type		Open-frame		Open-frame	
Overall dimensions(LxWxH)	mm	720x492x655		720x492x655	
Dry weight	kg	105		112	

TECHNICAL DATA

Type		KDE180XW		KDE180EW		KDE180TW	
Ratedfrequency	Hz	50	60	50	60	50	60
Ratedpower	kW	2.8	2.8	2.8	2.8	2.8	2.8
Ratedvoltage	V	115/230	120/240	115/230	120/240	115/230	120/240
Ratedcurrent	A	24.3/12.2	23.3/11.7	24.3/12.2	23.3/11.7	24.3/12.2	23.3/11.7
Ratedrotationspeed	r/min	3000	3600	3000	3600	3000	3600
Phase No.		Single-phase three-loop		Single-phase three-loop		Single-phase three-loop	
Power factor	cosφ	1.0		1.0		1.0	
Welding							
Ratedwelding voltage	V	65-70		65-70		65-70	
Ratedweldingcurrent	A	160		160		160	
Welding voltage	V	25-30		25-30		25-30	
Welding load continous ratio		60%		60%		60%	
Welding current adjustment range	A	50-180		50-180		50-180	
Electrode diameter	mm	1.6-4.0		1.6-4.0		1.6-4.0	
Excitation mode		Self-excitation and constant voltage (AVR)					
Recifying mode		Three-phase bridge+IGBT (PWM)					
Connection mode		Drive shaft ragid connection		Drive shaft ragid connection		Drive shaft ragid connection	
Insulation grade		B		B		B	
Pole number		2		2		2	
Engine							
Engine model		KM186FAGXW		KM186FAGEW		KM186FAGETW	
Engine type		Single-cylinder, four-stroke, air-cooled,directed injection, diesel engine					
Displacement	L	0.418		0.418		0.418	
Bore x stroke	mm	1-86x72		1-86x72		1-86x72	
Compressionratio		19:1		19:1		19:1	
Ratedpower	kW	5.7	6.3	5.7	6.3	5.7	6.3
Lubrication system		Pressure splashed		Pressure splashed		Pressure splashed	
Lube oil brand		SF SAE10W-30, 15W-40					
Lube capacity	L	1.65		1.65		1.65	
Starting system		Recoil starter		Recoil starter or 12v electric starter		Recoil starter or 12v electric starter	
Battery capacity	V-Ah	12V-36Ah		12V-36Ah		12V-36Ah	
Fuel consumption ratio	g/KW.h	275.1	281.5	275.1	281.5	275.1	281.5
Fuel type		0#(summer), -10#(winter),-35#(chill cold) diesel					
Generator set							
Fuel tank capacity	L	13.5		13.5		13.5	
Continous running time	hr	6		6		6.5	
Noise	dB(A)/7m	78		78		70	
Structure type		Open-frame		Open-frame		Silent	
Overall dimensions(LxWxH)	mm	840x535x650		840x535x650		930x545x740	
Dry weight	kg	130		147		191	