



**INNOVATION
LEADS THE
FUTURE POWER**

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Pro-X SERIES

ULTRA SILENT GENSETS 2013



Pro-X SERIES

Environmental friendly package purpose built to go anywhere

KIPOR's new line of Pro-X generators ranging from 11 to 200kVA. The generators are purpose designed to be durable, compact and easy to use. The Pro-X series is a result of KIPOR's innovation to deliver what our customers are demanding.

They incorporate many of the features: strong power, safe to operate, ergonomically designed, easy to service and maintain. And built to withstand the rough on-site handling and are suitable for use in demanding environments, even under the severest conditions.



Features and benefits



Good Cooling System

There is direct ventilation duct on the top of the genset with better ventilation performance. Meanwhile the radiator adopts 50℃ heat exchange design, with large cooling power and good heat dissipation performance. The inside temperature can reduce about 8℃, so it can run stably even under extreme high temperature conditions.



Safer Output

Adopt split design of input panel and socket panel to greatly improve safety. Battery switch design effectively avoids battery leakage problem, prolonging service time, safer to use.



Warning Function

Oil-water separator warning function is added in this series. When the water content and impurity of the oil are too high, this separator can filter water content and impurity automatically. When filtering to a certain content, the light on the panel will turn on to warn the customer to drainage water content and impurity.



User-friendly Design

The radiator filter cover adopts rotary plastic cover, easy to dismantle. The new genset has a rain proof cap on the exhaust pipe with better rain proof performance and the whole genset reaches IP54. The integral bottom fuel tank, greatly improve the shortages such as fuel leakage and waste fuel reservation.



Ultra Silent Running

Adopt integral silent design with unique noise reduction technology. The new door lock has pressing function, making the sealing strip fit the genset better. Several kinds of factors effectively reduce the noise.

Features and benefits



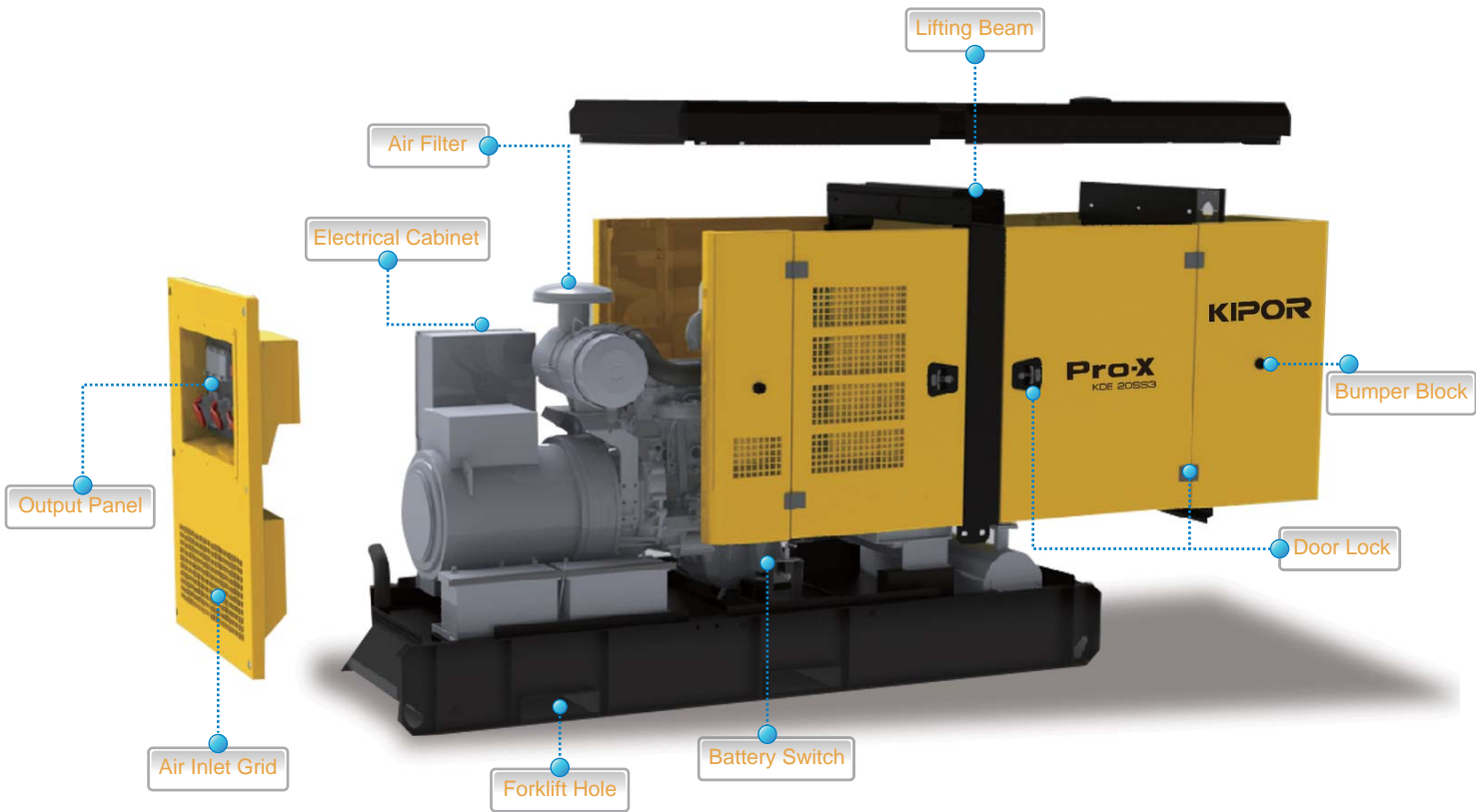
Convenient for maintenance

There are maintenance and check accesses outside the sound enclosure. Open one door for checking and maintenance, more convenient and simpler.



Large Capacity Fuel Tank

The large capacity fuel tank at the bottom of the genset extends the running hours to 14 hours. Compared with the previous genset, it can run another 4 hours, which ensures long time running.



KP310 Controller

is equipped with digital microprocessor, monitoring, controlling and protecting the genset. Adopt module design, host computer monitoring and remote controlling function can be integrated in an independent control system.

Pro-X SERIES

Dependable diesel power

The Pro-X Generator are powered by KIPOR Four-valve series engines. These proven power units offer excellent operating economy, exemplary starting and continuous reliable operation, quiet and clean in operation, even under the severest conditions.



Features and benefits



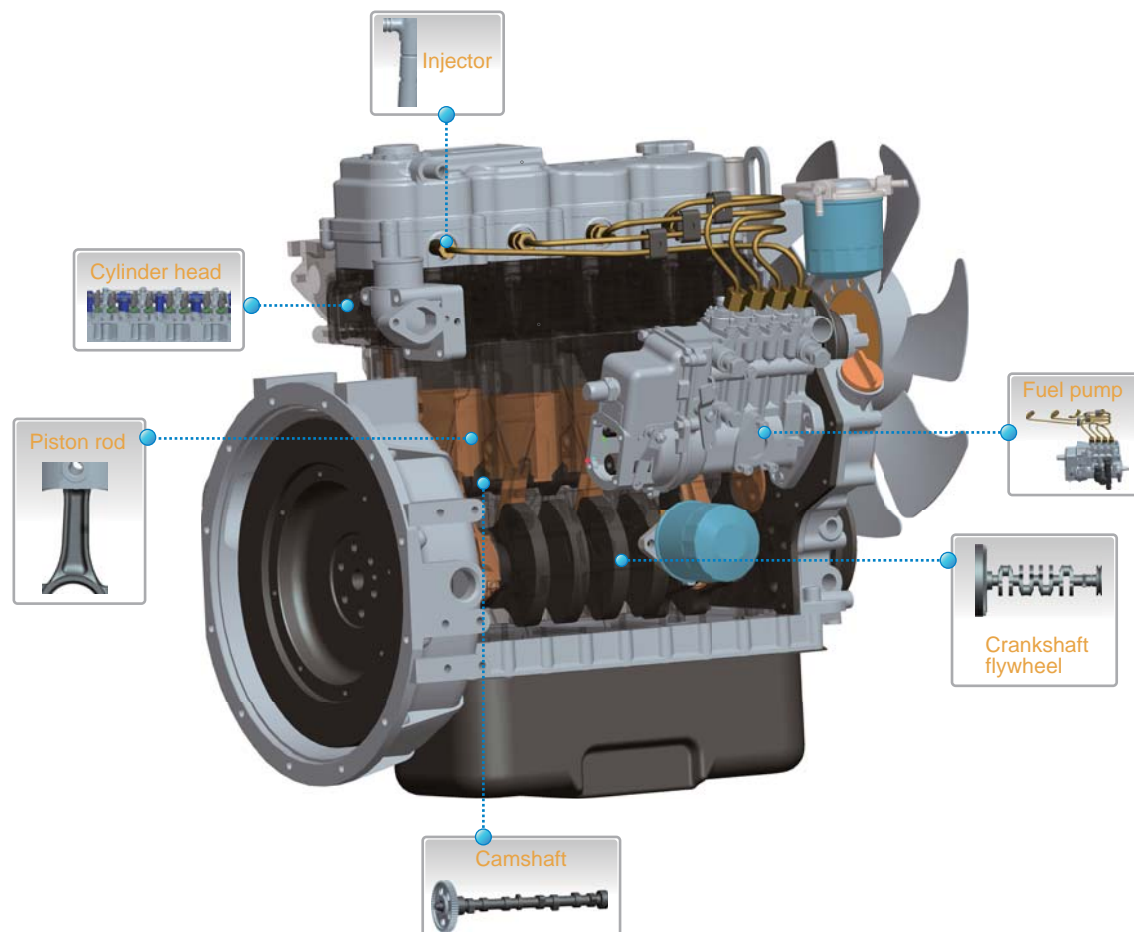
Low Fuel Consumption

- ▶ Supercharge Inter-cooling
High strength supercharge inter-cooling, optimize combustion.
- ▶ Overhead Camshaft
Overhead camshaft, vertical layout of cylinder central line of injector, uniform oil beam enhance engine efficiency.
- ▶ Exhaust Turbocharger
Reduce fuel consumption.



Low operation cost

- ▶ Electronic control of the combustion process and high thermal efficiency rating.
- ▶ Simplified service and maintenance work and long service intervals.
- ▶ Oil change at 500 hour intervals (normal operating conditions).
- ▶ Filters regrouped for ease of service and maintenance.
- ▶ Easy access to engine installation for service and maintenance.



Features and benefits



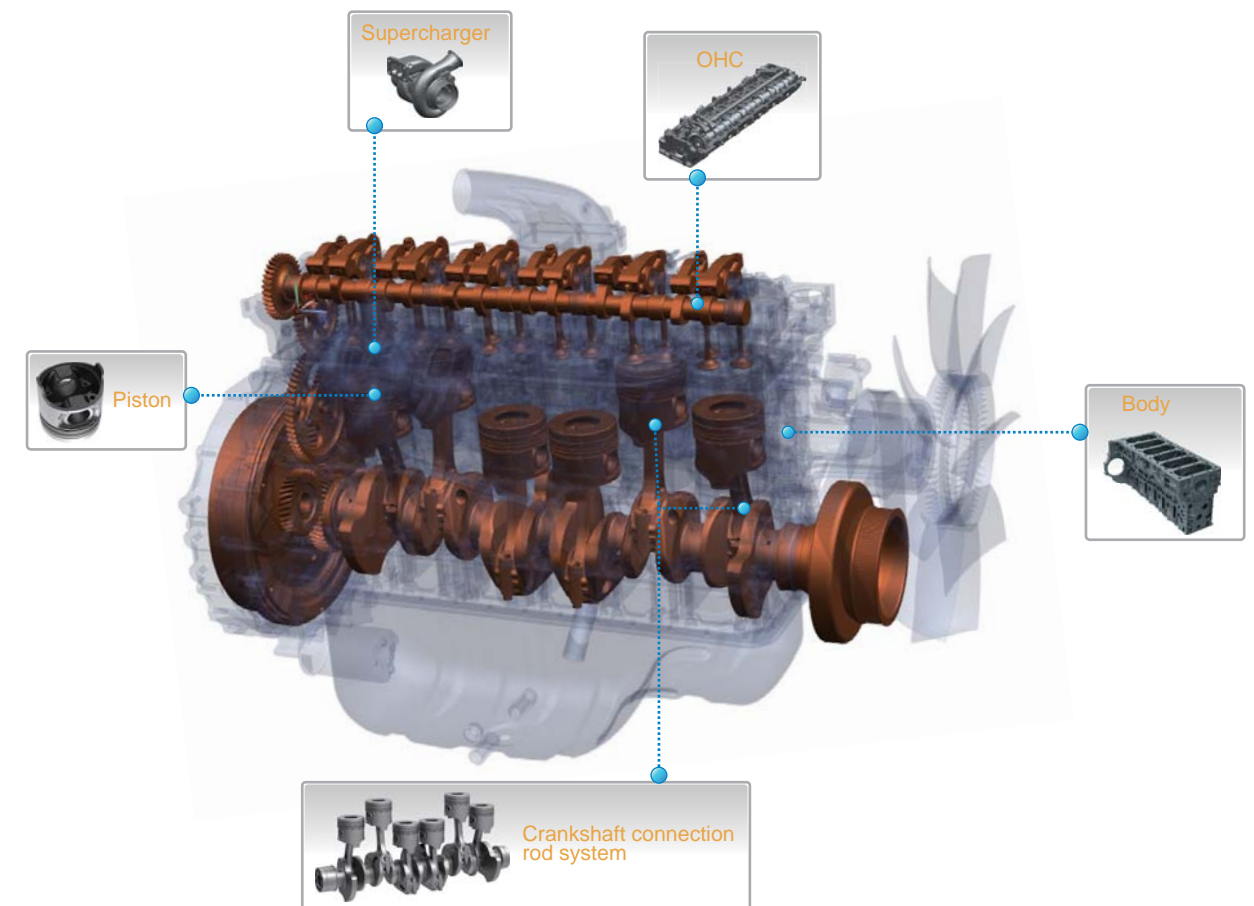
Durable and Dependable

- ▶ Robust structures keep the moving parts running smoothly throughout the engine life.
- ▶ Using a couplet main bearing cover to increase the engines strength and rigidity.
- ▶ The engine crankshaft is designed to create low vibration and high dependability.
- ▶ Crankcase cast as one piece enhance engine integral rigidity



Powerful & Compact

- ▶ With our-valve structure with better Ventilation performance and high charging coefficient, power can be improved by 25-30%.
- ▶ High average effective pressure make engine with large torque and power.
- ▶ Electric governor makes good combustion control .



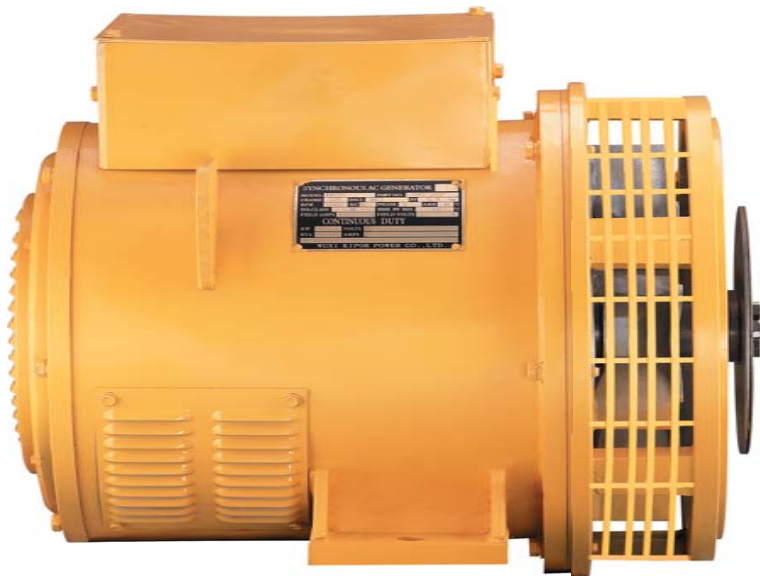
Low Emission

- ▶ Specially designed with an integrate water cooled engine.
- ▶ Maintenance-free crankcase breather separator.
- ▶ After-treatment system consisting of an Oxidation Catalyst and diesel particulate filter reduces PM emissions by 90%.
- ▶ In accordance with European III Emission Standard.

Pro-X SERIES

Reputable alternator

KIPOR new alternators are specially manufactured for using Pro-X generators. The synchronous brushless type alternators offer minimal wear and can be specified to deliver outputs ranging from 11 to 200 kVA.



Features and benefits

- Brushless structure improves reliability.
- Low harmonic content winding, overall salient plate, small voltage harmonic distortion.
- Standard type: 6 pole connections available to reconnect.
- VPI ensures reliable working in various condition.
- Class H insulation, class F temperature rise.
- IP23 protection, IP44 is available based on customer's needs.
- Application of qualified lamination cores makes low temperature rise.
- Standard SAE adaptations, convenient to match international major brand engines.



Option or accessories

- Winding temperature and bearing temperature testing RTD
- Thermal resistance and relay of winding temperature protection
- Anti-condensing heater
- Air filter
- Trailing current transformer for parallel operation
- Greasing bearing (base 400 or higher)
- IP44
- PMG
- Auxiliary winding

They respond rapidly to load fluctuations and provides stable and sufficient power at all times. Several voltages are available.



They offer maximum reliability and meet stringent quality requirements. Auxiliary windings or PMG, both offer excellent "start up" and good short circuit capability.

The alternators require minimal maintenance and comply with standards currently in force.

Pro-X SERIES

Robustness, safety, Ergonomy, Maintenance, Handling...
Discover all the innovations of the new line Pro-X genset for durable performance!

- ▶ Oil-water Separator
- ▶ Forklift hole
- ▶ Oil Sump Connection Design
- ▶ New Door Lock and Sealing Strip
- ▶ Easier for Check and Maintenance
- ▶ Lifting beam



Oil-water Separator

When the water content and impurity of the oil are too high, this separator can filter water content and impurity automatically.

When filtering to a certain content, the light on the panel will turn on to warn the customer to drainage water content and impurity, ensuring long time and stable running of the genset.



Lifting beam

The lifting point does not protrude from the overall volume of the machine, it is convenient for lifting.

Easier for Check and Maintenance

Facilitate the mainthenance of the generator. The air filter replacement and check of the whole set can be realized through one side door.



New Door Lock and Sealing Strip

The door lock has pressing function, better adjusting clearance of door, making sealing strip better fit the surface of the genset.

Forklift hole

Increases safety and facilitates handling with a fork lift.

Oil Sump Connection Design

The new genset adopts an integral bottom fuel tank, improving oil greasing and waste fuel storage problem. When check or fuel tank is damaged, oil, fuel and deicing fluid won't flow out. the ATS. It is compact, easy to connect, highly reliable and adaptable to many generators.

Pro-X SERIES

Robustness, safety, Ergonomy, Maintenance, Handling...
Discover all the innovations of the new line Pro-X genset for durable performance!

- ▶ Safer Output
- ▶ Battery Switch
- ▶ Door of access radiator
- ▶ Improved Radiator
- ▶ Excellent Cooling Duct
- ▶ Rain Proof Cap of Exhaust Pip
- ▶ Water Filler Cover of Radiator

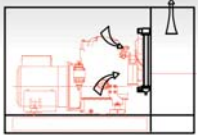


Water Filler Cover of Radiator
Water filler cap of radiator adopts rotating plastic cover, easy for dismantling.



Rain Proof Cap of Exhaust Pipe

There was no exhaust pipe and rain proof function for the previous genset. The new genset adopts rain proof cap pf exhaust pipe with better rain proof performance.



Excellent Cooling Duct

The genset adopts top straight ventilation with good ventilation performance, greatly reducing water temperature. The inside temperature can reduce 8 C.



Improved Radiator

The new radiator adopts heat transfer design of 50°C. It is light and compact with large reserving heat dissipation power. The heat dissipation performance is good, especially adapted to harsh environment, easy and convenient for installation and maintenance.



Battery Switch

The battery switch design effectively avoid leakage problem of battery, prolonging service life of it. It is safer to use and improves starting performance of the genset.

Door of access radiator

Facilitate the cleaning and the interview of the radiator.



Safer Output

New output panel and socket board adopt separate design. Safety is greatly improved, meanwhile rain proof is strengthened.



Technical Data

Generating set		KDE14SS		KDE18SS	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	11	13	14.2	17
Standby power	KVA	12.1	14.3	15.6	18.7
Rated voltage	V	115/230	120/240	115/230	120/240
Rated current	A	95.6/47.8	108.3/54.2	123.5/61.7	141.7/70.8
Rated rotation speed	r/min	1500	1800	1500	1800
Engine					
Engine manufacturer		KIPOR		KIPOR	
Engine type		KD388A		KD488A	
Generator					
Generator manufacturer		KIPOR		KIPOR	
Generator type		KF14		KF20	
Genset					
Fuel tank capacity	L	70		70	
Dimension	mm	1780×840×1160		1780×840×1160	
Net weight	kg	722		795	

KDE22SS		KDE30SS		KDE37SS	
50	60	50	60	50	60
17	21.5	25	30	30	36.5
18.7	23.7	27.5	33	33	40.2
115/230	120/240	115/230	120/240	115/230	120/240
148/74	179/89.6	217/108.7	250/125	261/130.4	304/152
1500	1800	1500	1800	1500	1800
KIPOR		KIPOR		KIPOR	
KD488ZA		KD498G		KD498ZG	
KIPOR		KIPOR		KIPOR	
KF25		KF35		KF50	
70		95		95	
1780×840×1160		2100×980×1200		2100×980×1200	
815		1100		1136	

Technical Data

Generating set		KDE17SS3		KDE23SS3	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	13.8	16.3	17.8	21.3
Standby power	KVA	15	17.5	20	23.8
Rated voltage	V	400/ 230	416/240	400/ 230	416/ 240
Rated current	A	19.8	22.6	25.6	29.5
Rated rotation speed	r/min	1500	1800	1500	1800
Engine					
Engine manufacturer		KIPOR		KIPOR	
Engine type		KD388A		KD488A	
Generator					
Generator manufacturer		KIPOR		KIPOR	
Generator type		KFS18		KFS25	
Genset					
Fuel tank capacity	L	70		70	
Dimension	mm	1780×840×1160		1780×840×1160	
Net weight	kg	726		805	

Generating set		KDE28SS3		KDE38SS3	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	21.3	27	31.3	37.5
Standby power	KVA	23.8	30	35	41.3
Rated voltage	V	400/ 230	416/ 240	400/ 230	416/ 240
Rated current	A	30.7	37.5	45.1	52
Rated rotation speed	r/min	1500	1800	1500	1800
Engine					
Engine manufacturer		KIPOR		KIPOR	
Engine type		KD488ZA		KD498G	
Generator					
Generator manufacturer		KIPOR		KIPOR	
Generator type		KFS30		KFS45	
Genset					
Fuel tank capacity	L	70		95	
Dimension	mm	1780x840x1160		2100x980x1200	
Net weight	kg	837		1100	

Technical Data

Generating set		KDE46SS3		KDE60SS3	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	37.5	45.6	50	60
Standby power	KVA	41.3	50	55	66.3
Rated voltage	V	400/ 230	416/ 240	400/ 230	416/ 240
Rated current	A	54.1	63.3	72.2	83.3
Rated rotation speed	r/min	1500	1800	1500	1800
Engine					
Engine manufacturer		KIPOR		KIPOR	
Engine type		KD498ZG		KD4114	
Generator					
Generator manufacturer		KIPOR		KIPOR	
Generator type		KFS50		KFS50	
Genset					
Fuel tank capacity	L	95		200	
Dimension	mm	2100x980x1200		2900x1150x1600	
Net weight	kg	1136		1940	

Generating set		KDE70SS3		KDE85SS3	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	60	70	72.5	82.5
Standby power	KVA	66.3	77.5	80	91.3
Rated voltage	V	400/ 230	416/ 240	400/ 230	416/ 240
Rated current	A	86.6	97.2	104.6	114.5
Rated rotation speed	r/min	1500	1800	1500	1800
Engine					
Engine manufacturer		KIPOR		KIPOR	
Engine type		KD4114		KD4114Z	
Generator					
Generator manufacturer		KIPOR		KIPOR	
Generator type		KFS70		KFS80	
Genset					
Fuel tank capacity	L	200		200	
Dimension	mm	2900×1150×1600		2900×1150×1600	
Net weight	kg	1970		2010	

Technical Data

Generating set		KDE98SS3		KDE118SS3	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	85	97.5	100	117.5
Standby power	KVA	93.8	107.5	110	128.8
Rated voltage	V	400/ 230	416/ 240	400/ 230	416/ 240
Rated current	A	122.7	135.3	144.3	163.1
Rated rotation speed	r/min	1500	1800	1500	1800
Engine					
Engine manufacturer		KIPOR		KIPOR	
Engine type		KD4114Z		KD4114ZL	
Generator					
Generator manufacturer		KIPOR		KIPOR	
Generator type		KFS95		KFS113	
Genset					
Fuel tank capacity	L	200		200	
Dimension	mm	2900x1150x1600		2900x1150x1600	
Net weight	kg	2040		2090	

Generating set		KDE145SS3		KDE175SS3	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	125	145	150	175
Standby power	KVA	137.5	160	165	192.5
Rated voltage	V	400/ 230	416/ 240	400/ 230	416/ 240
Rated current	A	180.4	201.2	216.5	242.9
Rated rotation speed	r/min	1500	1800	1500	1800
Engine					
Engine manufacturer		KIPOR		KIPOR	
Engine type		KD6114Z		KD6114ZL	
Generator					
Generator manufacturer		KIPOR		KIPOR	
Generator type		KFS125		KFS150	
Genset					
Fuel tank capacity	L	280		280	
Dimension	mm	3300x1150x1750		3300x1150x1750	
Net weight	kg	2430		2481	