



50Hz Silent  
**KDF-18Q**  
**KDF-25Q**  
**KDF-30Q**  
Diesel Generator



*All Days | safe | Reliable | Stability*





**KDF-18Q**

**KDF-25Q**

**KDF-30Q**



**Diesel generator set**



**50HZ**



**Water-cooled**



**Three Phase**



**Silent type**

Model		KDF-18Q	KDF-25Q	KDF-30Q
Rated output	KVA	18.8	25.0	30.0
Max. output	KVA	20.7	27.5	33.0
Rated frequency	Hz	50	50	50
Rated voltage	V	400/230	400/230	400/230
Rated current	A	27.1	36	43.3
Rated speed	rpm	1500	1500	1500
Noise (7m)	V	73	73	73
Fuel tank	L	60	70	80
Continuous running time	hr	10	10	10

### Main features:

- KDF weather-protective and sound-attenuated enclosures deliver superior durability, security and convenience.
- Efficient fuel system for max power output and durability.
- Compact and durable design with large doors for easy access to perform scheduled maintenance.
- Forklift pockets and lifting lug for easy handling and transportation.

## DIESEL ENGINE

### Main features:

- Four cylinder, in-line, water-cooled, direct injection
- Efficient fuel system for max power output and durability
- Large-capacity air cleaner
- Cost effective, fuel efficient and reliable performance
- Functional engine with compact structure
- Excellent after-sales service and sufficient spare parts supplying
- Excellent fuel consumption with 300 g/kw.h
- Easy installation and ready access for routine maintenance

Model		KDF-18Q	KDF-25Q	KDF-30Q
<b>Engine model</b>		<b>ZN490</b>	<b>4L68</b>	<b>CZ4102</b>
<b>Engine type</b>		Four cylinder, in-lined, water-cooled		
<b>Bore X Stroke</b>	mm	90x100	95x100	102x118
<b>Displacement</b>	L	2.545	2.834	3.856
<b>Rated power</b>	KW	21	24	27
<b>Cooling water</b>	L	5.8	5.8	5.8
<b>Lube oil</b>	L	7.5	7.5	8.2
<b>Lubrication system</b>		Pressure splashed	Pressure splashed	Pressure splashed
<b>Lube oil type</b>		SAE10W-30,15W-40 (above CD grade)		
<b>Starting system</b>		12V electric start	12V electric start	12V electric start
<b>Battery</b>		12V 45Ah x1	12V 45Ah x1	12V 80Ah x1
<b>Fuel tpye</b>		0# (summer), -10# (winter), -35# (chillness) diesel		
<b>Fuel consumption</b>	g/KW.h	<300	<300	<300

Changchai Co., Ltd. is not only a nearly century-old national industrial enterprise, but also one of the earliest internal-combustion engine manufacturers in China. It is the first listed company in the national agricultural machinery industry and Changzhou city. Changchai has been awarded over 60 national and ministerial honorary titles and medals, over 100 provincial honorary titles and medals, setting itself as a model in the industry. Changchai engine meet CE, EPA standard.

KDP series of diesel generator set features compact structure, perfect portability, reliable power, and low emission.

## ALTERNATOR

### Main features:

- Advanced automatic voltage regulator (AVR) control for trouble-free operation under the most demanding conditions
- 2/3 pitch winding as standard, to avoid excessive neutral currents
- Single or two bearing construction with dynamically balanced rotor and sealed-for-life bearings
- Easy access for installation and maintenance
- IP23 as standard
- Self-excited control system
- Resist of corruption of oil and acid

Model		KDF-18Q	KDF-25Q	KDF-30Q
<b>Alternator model</b>		<b>184E</b>	<b>184F</b>	<b>184G</b>
<b>Pole</b>		4	4	4
<b>Loop mode</b>		Three phase four line	Three phase four line	Three phase four line
<b>Excitation mode</b>		Brushless self-excited constant voltage	Brushless self-excited constant voltage	Brushless self-excited constant voltage
<b>Power factor</b>	cosΦ	0.8 (lag)	0.8 (lag)	0.8 (lag)
<b>Insulation grade</b>		H	H	H

## CONTROL PANEL

- Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation
- Have a RS485 port, can be used for communicate to PC
- All parameters can be set from the front panel, or be set by PC used SG72
- Security password-protected programming levels
- All parameters use digital modulation, with higher reliability and stability
- Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed
- Power supply range is wide, accommodating to different starting battery voltage environment
- Built-in watch dog can never be dead halt, ensuring smooth program execution
- Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation



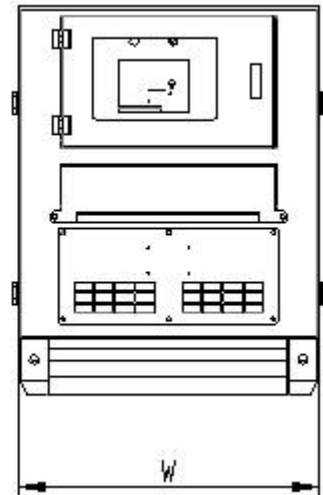
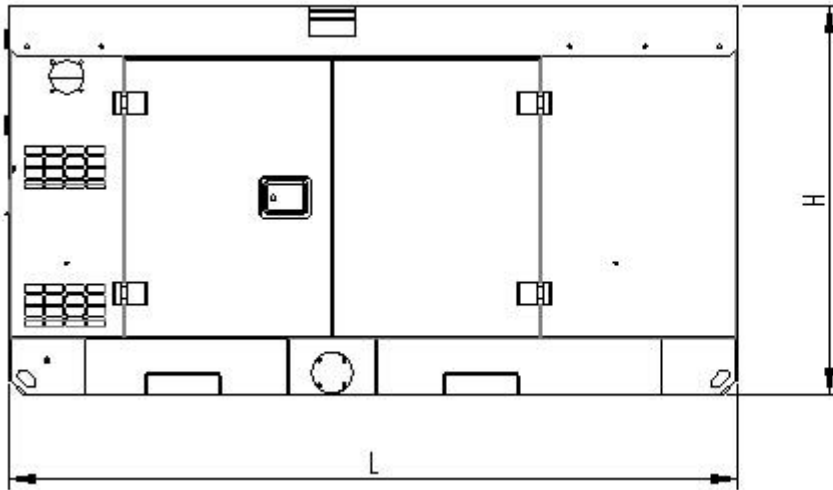
### Protection:

- |                            |                             |
|----------------------------|-----------------------------|
| ● High engine temperature  | ● Generator under frequency |
| ● Low oil pressure         | ● Generator over voltage    |
| ● Over speed               | ● Generator under voltage   |
| ● Under speed              | ● Generator over current    |
| ● Loss of speed signal     | ● Fail to start             |
| ● Generator over frequency | ● Auxiliary inputs          |

### Precision measure and display of:

- |                                  |                                  |
|----------------------------------|----------------------------------|
| ● Mains voltage                  | ● Generator power factor         |
| ● Mains frequency                | ● Generator starts count         |
| ● Mains current                  | ● Generator hour count           |
| ● Generator voltage              | ● Cumulate electric energy (kWh) |
| ● Generator current              | ● Generator temperature          |
| ● Generator frequency            | ● Generator pressure             |
| ● Generator active power (kW)    | ● Generator fuel level           |
| ● Generator inactive power (kW)  | ● Start battery voltage          |
| ● Generator apparent power (kVA) |                                  |

### Overview Dimension



Model		KDF-18Q	KDF-25Q	KDF-30Q
L= Length	mm	1840	1950	2100
W= Width	mm	800	800	820
H= High	mm	1050	1050	1150
Net weight	kg	760	830	920
ATS		40A	40A	63A

## Standard and Optional Features

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### Engine:

- 4-stroke, water-cooled diesel engine
- Standard air filter
- Standard fuel filter
- Standard oil filter
- Oil temperature sensor
- Low coolant level sensor
- 24V electrical system
- Radiator with blowing fan
- Industrial silence
- **Fuel water separator (optional)**
- **Water jacket heater (optional)**

### Alternator:

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- Single bearing alternator
- **PMG excitation (optional)**

### Electrical system:

- DSE4510 control module
- Maintenance-free and anti-explosion battery
- Standard breaker
- **ATS (optional)**

### Packing:

- Engine manual
- Alternator manual
- Gensets operation and maintenance manual
- Tool kit

### Baseframe:

- Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings
- Fuel outlet valve
- Standard 8 hours fuel tank
- **Separated fuel tank (optional)**

### Canopy:

- Weatherproof & sound-attenuated canopy
- Sound-absorbing material
- Lifting lug
- Emergency stop button
- Inside silencer
- **Trailer (optional)**

