KDE75E3

Features

Diesel Engine

With KIPOR KD series engine/ Cummins B, C, L, N, K series engine as the power source. Applicable to 13.5-920kW generator set.

Optional mechanical or electrical governor, with excellent speed response characteristics

Optional engine speed (1500rpm, 1800rpm, 3000rpm), which reflects the strong power and economic efficiency of the set.

Optimum power output characteristics

Engines are available with three different air intaking methods– natural aspiration, charged and charge inter-cooling.

Synchronous Alternator

KIPOR KFS Series Alternator

•Four-pole rotating magnetic field, self-ventilating radiation system formed by rotor blade

•2/3 pitch winding, effectively eliminating the sub or ultra harmonic and increasing the paralleling capability

•excellent short circuit withstand ability

•Brushless rotating exciter with rotor/stator exciting system, three-phase rectified bridge

•Insulation grade: H

•Single-ended support mounting way minimizes the vibration of operating generator

•Standard wiring with three-phase four-wire and star connection output

•Auxiliary AVR ensures the steady state voltage deviation compliant with ISO 8528G3

•High quality electromagnetic winding coil

•Integrated design combining the AC output main winding and exciting system

•Rotor damper windings improve the output wave of generator and minimum the wave distortion

•Minimum the generator reactance characteristics

•Maximize the efficiency of electromagnetic induction power generation

Complete Auxiliary Equipment System

•The generator set is installed with internal vibration damper, controller, starting system and auto-monitoring system, to form an integrated power station generator set.

•The internal cushion is made of special rubber

•No need for additional cushion to connect and fix the base to ground.

Output
Apply connection pole for generator set full power output
ATS configuration option
ATS dual-power auto-switch system introduces the specialized dual-power switch with self-locker.

Control System
KI Series controller is a control system independently researched and developed by KIPOR. It applies the microprocessor technology, with the function of measurement, control and protection, and accurately measures various parameters. Cooperating with its self-developed ATS module, it can realize the manual/auto switch control between the generator set and utility power.

Engine Protection
Over/Under speed alarm/shut down
Starting fail shut down
Low oil pressure alarm/shutdown
High coolant temperature alarm/shutdown
Low fuel level alarm/shut.
Charging fault alarm
High/low battery voltage alarm

Internal Control
• Manual/ automatic operation mode option
• Wireless remote start
• Electric door lock start
• Emergency shut down
• Engine speed testing
• Engine start
• Barring

Alternator
• Over/Under voltage shut down
• Over current alarm/shut down
• Under frequency shut down
• Over frequency shut down
Standard protection
During the operation, the control system may display the fault on panel by lighting up the relative LED and revealing the fault code and explanation on LCD, with the internal buzzer sounding for alarm.

LCD Data Displays
• Generator set parameters
• Engine speed
• Output frequency
• Output phase voltage
• Output line voltage
• Oil pressure
• Coolant temperature
• Oil temperature (optional)
• Fuel level
• Clock
• Battery voltage
• Battery charging current
• Output current
• Active power
• Reactive power
• Power factor
• Continuous running time
• Output power
• Grid frequency
• Grid three-phase phase voltage
• Grid network three-phase line voltage
• Fault history

KDE75E3	
Model	KDE75E3
Rated frequency(Hz)	50
Rated output(kVA/kW)	62
	49.6
Max. output(kVA/kW)	66
	52.8
Rated voltage(V)	230/400
Rated current(A)	89.5
Rated speed(r/min)	1500
Alternator manufacturer	KIPOR
Alternator model	KFS70
Pole number	4
Loop mode	Three-phase four-line(Y-connection)
Excitation mode	Brushless self-excitation and constant voltage (AVR)
Power factor(COSΦ)	0.8(lag)
Insulation grade	H
Engine manufacturer	KIPOR
Engine model	KD6105G
Cylinder block structure	Six-cylinder in-lined, four-stroke, direct injection, water cooled
Bore×Stroke(mm)	105×125
Displacement(L)	6.494
Compression ratio	17.5:1
Rated power(kW)	59
Capacity of cooling water (only engine) (L)	11.8
Lubrication system	Pressure splashed
Lube oil brand	Above CD grade or SAE 10W-30, 15W-40
Lube capacity(L)	18.5
Starting system	24V Electric starter

Starting motor capacity(V-KW)	24V 4.5kW
Charging generator capacity(V-A)	28V 35A
Battery capacity × number (V.Ah)	12V 80Ah ×2
Fuel type	0#(summer)-10#(winter)-35#(chillness) diesel
Fuel consumption rate(g/kW.hr)	≤290
Panel type	Smart panel
Output - Voltage(V)	400/230 416/240
Output - Receptacle	N/A
Output	N/A
Noise level (7m)dB(A)	100 102
Structure type	Open-frame
Fuel tank capacity(L)	210
Continuous running time(hr)	9.5 8
Overall dimension(mm)	1960×850×1540
Dry weight(kg)	1320