

RELIABLE ENERGY SOLUTIONS



KOFO KSK SERIES GENERATORS

Technical Specifications

DIESEL ENGINE

SHANGHAI With 12V/24V volt starter and charging alternator
Changeable air, fuel and oil filter
Mechanical governor control
With tropical radiators
With flexible fuel hose
With oil drain valve and extension hose
Industrial type muffler and steel compensator
Starter type batteries
Engine jacket water heater
1500 rpm engine speed

OPTIONAL EQUIPMENTS

Moulded case circuit breaker (for automatic models)
Sound insulation cabinet
Trailer mounted generator set
Automatic fuel filling system
Synchronization board
3-pole / 4-pole power transfer board
Fuel heater, oil heater
External fuel tank and automatic fuel filling system
Fuel / water separator filter
Computer controlled remote monitoring and control panel

ALTERNATOR

IP 21-23 protection class
H insulation class
50 Hz frequency
4-pole brushless synchronous type
With automatic voltage regulator (AVR)
400/230VAC output voltage

CABINET AND CHASSIS

Design suitable for easy lifting and carrying
Cabin equipped with sound insulation
Modular cabinet design
Lockable cabinet covers
Panel monitoring with transparent window
Durable electrostatic powder coated
With emergency stop button
Fuel tank in integrated in chassis
Robust and flexible anti-vibration wedges



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KSK SERIES

GENERATORS

	MODEL		KSK 22	KSK 35	KSK 50	KSK 66
Stand By	kVA		22	35	50	66
	kW		17,6	28	40	53
Prime	kVA		20	32	45	59
	kW		16	25	36	47
Continuous Current	A		28,8	49,2	65	84,8
Engine			KOFO	KOFO	KOFO	KOFO
Engine Model			4YT23-20	N4100ZDS-30	N4100ZDS-42	N4100ZDS
Number of Cylinder and Type			4 INLINE	4 INLINE	4 INLINE	4 INLINE
Injection and System Type			Direct	Direct	Direct	Direct
Electrical System (VCD)	V		12	12	12	24
Compression Ratio			17:01	17:01	17:01	17:01
Cylinder Volume	lt		2,31	3,61	3,61	4,15
Bore	mm		88	100	100	105
Stroke	mm		95	115	115	120
Aspiration			Natural	Natural	Turbocharger	Turbocharger
Speed	d/dk		1500	1500	1500	1500
Oil Capacity	lt		7	13	13	13
Fuel Type			Euro Diesel	Euro Diesel	Euro Diesel	Euro Diesel
Governor System			Mechanic	Elektronik	Mechanic	Mechanic
Cooling Method			Water Cooled	Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity			10	13	13	13
Continuous (Prime)	At Full Load		5,8	9	12,2	12,2
Power fuel consumption	%75 Load	lt	4,5	6,5	9,1	9,1
	%50 Load		2,9	4,7	6,4	6,4
Alternator Model			KCS-184E	KCS-184G	KCS-224D	KCS-224E
Frequency	Hz		50	50	50	50
Power	kVA		25	35	50	66
Voltage	V		230 / 400	230 / 400	230 / 400	230 / 400
Phase			3	3	3	3
Automatic Voltage Regulator			AS440	AS440	AS440	AS440
Voltage Regulation			±1%	±1%	±1%	±1%
Insulation Class			H	H	H	H
Protection Class			IP 23	IP 22	IP 22	IP 22
Power Factor	cos φ		0.8	0.8	0.8	0.8
Weight with / without Cabinet	kg		770 / 595	1056 / 776	1175 / 895	1125 / 905
Width with / without Cabinet	mm		950 / 950	1000 / 1000	1000 / 1000	1000 / 1000
Length with / without Cabinet	mm		1750 / 1450	2250 / 1480	2370 / 1700	2370 / 1875
Height with / without Cabinet	mm		1420 / 1120	1690 / 1640	1710 / 1290	1710 / 1290
Fuel Tank Capacity	lt		62	105	118	118

Standby Power: Using the generator under variable load as a backup to the mains energy as emergency power supply, no overloading.

Prime Power: Using it as a 24/24-hour continuous power supply under variable loads. 1/12 hour can be allowed to 10% overload.

Kocsan Generator reserves the right to make changes to the model, specifications, color, equipment and accessories of the products without prior notice.



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KSK SERIES GENERATORS

	MODEL		KSK 80	KSK 90	KSK 110	KSK 125
Stand By	kVA		80	90	110	125
	kW		64	72	88	100
Prime	kVA		72	81	99	112
	kW		57	65	79	90
Continuous Current	A		106	117	142,5	162,4
Engine			KOFO	KOFO	KOFO	KOFO
Engine Model			N4105ZLDS	R4105BZLDS	4RT55-88D	R6105ZLDS
Number of Cylinder and Type			4 INLINE	4 INLINE	4 INLINE	6 INLINE
Injection and System Type			Direct	Direct	Direct	Direct
Electrical System (VCD)	V		24	24	24	24
Compression Ratio			17:01	17:01	17:01	17:01
Cylinder Volume	lt		4,15	4,67	5,32	6,49
Bore	mm		105	105	105	105
Stroke	mm		120	135	120	125
Aspiration			Turbocharger / Intercooler	Turbocharger / Intercooler	Turbocharger	Turbocharger / Intercooler
Speed	d/dk		1500	1500	1500	1500
Oil Capacity	lt		13	16	16	17
Fuel Type			Euro Diesel	Euro Diesel	Euro Diesel	Euro Diesel
Governor System			Mechanic	Elektronik	Mechanic	Elektronik
Cooling Method			Water Cooled	Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity			13	16	18	23
Continuous (Prime) Power fuel consumption	At Full Load		13	19	23,3	25,6
	%75 Load	lt	9	14,2	16,5	19,2
	%50 Load		6	9,5	11	12,8
Alternator Model			KCS-224F	KCS-224G	KCS-274C	KCS-274D
Frequency	Hz		50	50	50	50
Power	kVA		80	93	110	125
Voltage	V		230 / 400	230 / 400	230 / 400	230 / 400
Phase			3	3	3	3
Automatic Voltage Regulator			AS440	AS440	AS440	AS440
Voltage Regulation			±1%	±1%	±1%	±1%
Insulation Class			H	H	H	H
Protection Class			IP 22	IP 22	IP 22	IP 22
Power Factor	cos φ		0.8	0.8	0.8	0.8
Weight with / without Cabinet	kg		1298 / 1038	1238 / 1002	1570 / 1290	1460 / 1200
Width with / without Cabinet	mm		1000 / 1000	1000 / 1000	1100 / 1100	1100 / 950
Length with / without Cabinet	mm		2650 / 2145	2600 / 2200	2600 / 2200	2550 / 2100
Height with / without Cabinet	mm		1890 / 1310	1635 / 1590	1770 / 1570	1730 / 1550
Fuel Tank Capacity	lt		185	139	145	160

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	MODEL		KSK 135	KSK 150	KSK 165
Stand By	kVA		135	150	165
	kW		108	120	132
Prime	kVA		121	135	148
	kW		97	108	118
Continuous Current	A		175	195	213
Engine			KOFO	KOFO	KOFO
Engine Model			4RT55D-110	R6105AZLDS	R6105BZLDS
Number of Cylinder and Type			4 INLINE	6 INLINE	6 INLINE
Injection and System Type			Direct	Direct	Direct
Electrical System (VCD)	V		24	24	24
Compression Ratio			17:01	17:01	17:01
Cylinder Volume	lt		5,32	6,75	7,01
Bore	mm		105	105	105
Stroke	mm		120	130	135
Aspiration			Turbocharger	Turbocharger / Intercooler	Turbocharger / Intercooler
Speed	d/dk		1500	1500	1500
Oil Capacity	lt		16	17	17
Fuel Type			Euro Diesel	Euro Diesel	Euro Diesel
Governor System			Mechanic	Mechanic	Mechanic
Cooling Method			Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity			18	23	23
Continuous (Prime)	At Full Load		29,1	32	37,1
Power fuel consumption	%75 Load	lt	21,7	24,3	28,1
	%50 Load		14,5	16,6	19,2
Alternator Model			KCS-274E	KCS-274F	KCS-274G
Frequency	Hz		50	50	50
Power	kVA		137	154	165
Voltage	V		230 / 400	230 / 400	230 / 400
Phase			3	3	3
Automatic Voltage Regulator			AS440	AS440	AS440
Voltage Regulation			±1%	±1%	±1%
Insulation Class			H	H	H
Protection Class			IP 23	IP 22	IP 22
Power Factor	cos φ		0.8	0.8	0.8
Weight with / without Cabinet	kg		1600 / 1280	1800 / 1470	1750 / 1265
Width with / without Cabinet	mm		1100 / 1100	1100 / 1100	1100 / 1100
Length with / without Cabinet	mm		2900 / 2420	2950 / 2470	2980 / 2200
Height with / without Cabinet	mm		1970 / 1370	1970 / 1370	2000 / 1700
Fuel Tank Capacity	lt		250	280	300

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Control Panel

Technical Specifications

- » Diesel and gas generator support
- » 400 Hz generator support
- » Event recording with 400x metric values
- » All parameters can be changed from the front panel
- » 3-level program password
- » 128x64 pixel graphic LCD
- » Language installation
- » Current-voltage waveform
- » Current-voltage harmonic analysis
- » 16Amp/250V CC/JK output
- » 8 programmed digital inputs
- » 6 programmed digital outputs
- » 3 programmed analog inputs
- » CANBUS-J1939 & MPU input
- » 3 programmed service alarms
- » Multiple automated test programs
- » Weekly work schedule
- » Dual generator support, equal aging
- » Fine speed adjustment (some ECUs)
- » Automatic fuel pump control
- » Protections cancellation feature
- » Overpower protection
- » Reverse power protection
- » Overcurrent IDMT protection
- » Load shedding, dummy load
- » Multiple load shedding programs
- » Current imbalance protection
- » Voltage imbalance protection
- » Refueling and theft alarms
- » Battery-assisted real-time clock
- » Idle speed control
- » Battery charging operation
- » Battle mode support
- » Multiple nominal requirement definitions
- » Contactor and motor switch drive
- » 4 quarter energy meters
- » Mains energy meters
- » Fuel filling counter
- » Fuel consumption counter
- » Modem diagnostics page
- » Parameter setting via USB, RS-232 and GPRS
- » Free configuration software
- » Possibility of control via SMS
- » Ready for centralized monitoring
- » Mobile generator support
- » Automatic GSM geolocation
- » GPS connection (RS232)
- » Throwing software via USB
- » IP65 protection (with seal)



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