

RELIABLE ENERGY SOLUTIONS



RICARDO

KSR 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)
400/230V AC 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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MODEL			KSR 35	KSR 50	KSR 55
Stand By	kVA		35	50	35
	kW		28	40	44
Prime	kVA		32	45	50
	kW		25	36	40
Continuous Current	A		49,2	65	77
Engine			RICARDO	RICARDO	RICARDO
Engine Model			K4100D	K4100ZD	K4100ZD
Number of Cylinder and Type			4 INLINE	4 INLINE	4 INLINE
Injection and System Type			Direct	Direct	Direct
Electrical System (VCD)	V		12	12	12
Compression Ratio			17:01	17:01	17:01
Cylinder Volume	lt		3,61	3,61	3,61
Bore	mm		100	100	100
Stroke	mm		115	115	115
Aspiration			Natural	Natural	Natural
Speed	d/dk		1500	1500	1500
Oil Capacity	lt		13	13	13
Fuel Type			Euro Diesel	Euro Diesel	Euro Diesel
Governor System			Mechanic	Mechanic	Mechanic
Cooling Method			Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity			17	17	17
Continuous (Prime)	At Full Load		9	12,2	12,2
Power fuel consumption	%75 Load	lt	6,5	9,1	9,1
	%50 Load		4,7	6,4	6,4
Alternator Model			KCS-184G	KCS-224C	KCS-224C
Frequency	Hz		50	50	50
Power	kVA		35	55	55
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 22	IP 22	IP 22
Power Factor	cos φ		0.8	0.8	0.8
Weight with / without Cabinet	kg		1040 / 825	1120 / 900	1120 / 900
Width with / without Cabinet	mm		950 / 950	950 / 950	950 / 950
Length with / without Cabinet	mm		2225 / 1800	2225 / 1800	2225 / 1800
Height with / without Cabinet	mm		1640 / 1400	1640 / 1400	1640 / 1400
Fuel Tank Capacity	lt		140	140	140

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.

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MODEL		KSR 75	KSR 90	KSR 100
Stand By	kVA	75	90	100
	kW	60	72	80
Prime	kVA	67	82	90
	kW	53,0	65	72
Continuous Current	A	104,7	126,2	130
Engine		RICARDO	RICARDO	RICARDO
Engine Model		R4105ZD	R4105IZLD	R4105IZLD
Number of Cylinder and Type		4 INLINE	4 INLINE	4 INLINE
Injection and System Type		Direct	Direct	Direct
Electrical System (VCD)	V	12	12	24
Compression Ratio		17:01	16:01	16:01
Cylinder Volume	lt	4,33	4,50	4,50
Bore	mm	105	105	105
Stroke	mm	125	130	130
Aspiration		Turbocharger	Turbocharger / Aftercooler	Turbocharger / Aftercooler
Speed	d/dk	1500	1500	1500
Oil Capacity	lt	14	15	13
Fuel Type		Euro Diesel	Euro Diesel	Euro Diesel
Governor System		Mechanic	Mechanic	Mechanic
Cooling Method		Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity		11,4	23	23
Continuous (Prime)	At Full Load	14,5	19	17,4
Power fuel consumption	%75 Load	11	15	12,4
	%50 Load	7,6	13	8,7
Alternator Model		KCS-224E	KCS-224F	KCS-224G
Frequency	Hz	50	50	50
Power	kVA	75	94	103
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 22	IP 22	IP 22
Power Factor	cos φ	0.8	0.8	0.8
Weight with / without Cabinet	kg	1360 / 1055	1560 / 1155	1750 / 1265
Width with / without Cabinet	mm	1000 / 950	1100 / 950	1100 / 1100
Length with / without Cabinet	mm	2440 / 1800	2750 / 1900	2980 / 2200
Height with / without Cabinet	mm	1840 / 1500	1840 / 1500	2000 / 1700
Fuel Tank Capacity	lt	225	300	300

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MODEL			KSR 110	KSR 125	KSR 150
Stand By	kVA		110	125	150
	kW		88	100	120
Prime	kVA		100	113	148
	kW		80	90	118
Continuous Current	A		154	174	227,9
Engine			RICARDO	RICARDO	RICARDO
Engine Model			R6105ZD	R6105ZLD	R6105AZLD
Number of Cylinder and Type			6 INLINE	6 INLINE	6 INLINE
Injection and System Type			Direct	Direct	Direct
Electrical System (VCD)	V		24	24	24
Compression Ratio			16:01	16:01	16:01
Cylinder Volume	lt		6,49	7,10	7,01
Bore	mm		105	105	105
Stroke	mm		125	135	135
Aspiration			Turbocharger / Aftercooler	Turbocharger	Turbocharger / Aftercooler
Speed	d/dk		1500	1500	1500
Oil Capacity	lt		16	17	15
Fuel Type			Euro Diesel	Euro Diesel	Euro Diesel
Governor System			Mechanic	Mechanic	Mechanic
Cooling Method			Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity			23	23	25
Continuous (Prime)	At Full Load		22,2	25,6	33
Power fuel consumption	%75 Load	lt	16,7	19,2	25
	%50 Load		11,1	12,8	17
Alternator Model			KCS-274B	KCS-274C	KCS-274D
Frequency	Hz		50	50	50
Power	kVA		110	132	154
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 22	IP 22	IP 22
Power Factor	cos φ		0.8	0.8	0.8
Weight with / without Cabinet	kg		1750 / 1265	1810 / 1300	1920 / 1360
Width with / without Cabinet	mm		1100 / 1100	1100 / 1100	1100 / 1100
Length with / without Cabinet	mm		2980 / 2200	2980 / 2200	3200 / 2200
Height with / without Cabinet	mm		2000 / 1700	2000 / 1700	2100 / 1700
Fuel Tank Capacity	lt		300	300	320

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MODEL		KSR 175	KSR 200	KSR 220
Stand By	kVA	175	200	220
	kW	140	160	176
Prime	kVA	160	180	198
	kW	128	145	158
Continuous Current	A	246,4	277,2	285
Engine		RICARDO	RICARDO	RICARDO
Engine Model		R6105IZLD	R6108ZLD	R6110ZLD
Number of Cylinder and Type		6 INLINE	6 INLINE	6 INLINE
Injection and System Type		Direct	Direct	Direct
Electrical System (VCD)	V	24	24	24
Compression Ratio		16:01	16:01	16:01
Cylinder Volume	lt	7,01	7,01	7,69
Bore	mm	105	110	110
Stroke	mm	135	135	135
Aspiration		Turbocharger / Aftercooler	Turbocharger / Aftercooler	Turbocharger
Speed	d/dk	1500	1500	1500
Oil Capacity	lt	15	18	15
Fuel Type		Euro Diesel	Euro Diesel	Euro Diesel
Governor System		Mechanic	Mechanic	Mechanic
Cooling Method		Water Cooled	Water Cooled	Water Cooled
Total Coolant Capacity		25	25	25
Continuous (Prime)	At Full Load	33	39,5	39,5
Power fuel consumption	%75 Load	25	29,6	29,6
	%50 Load	17	19,8	19,8
Alternator Model		KCS-274E	KCS-274F	KCS-274g
Frequency	Hz	50	50	50
Power	kVA	176	220	220
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 22	IP 22	IP 22
Power Factor	cos φ	0.8	0.8	0.8
Weight with / without Cabinet	kg	2000 / 1440	2215 / 1530	2215 / 1730
Width with / without Cabinet	mm	1100 / 1100	1100 / 1100	1100 / 1100
Length with / without Cabinet	mm	3200 / 2200	3500 / 2500	3500 / 2500
Height with / without Cabinet	mm	2100 / 1700	2200 / 1700	2200 / 1700
Fuel Tank Capacity	lt	320	370	370

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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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