

KIPOR

KIPOR POWER OPERATION MANUAL

PLEASE READ THIS MANUAL CAREFULLY.
IT CONTAINS IMPORTANT SAFETY INFORMATION.

GENERAL GENERATOR

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KIPOR POWER CO., LTD.

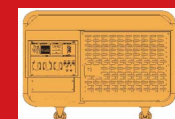
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OPEN-FRAME GASOLINE GENERATING SET

SINGLE-PHASE: KGE2500X
KGE4000X
KGE6500X/E
THREE-PHASE: KGE6500X3/E3

Single-phase:
KGE12E

Three-phase:
KGE12E3



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تهران، کیلومتر ۲۱ بزرگراه لشکری، جاده مخصوص کرج
روبروی پانایشگاه نفت پارس، پلاک ۱۲



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Gasoline generator

" New design control panel, bringing more convenient operation as well as nice appearance... "

Gasoline generator

* single-phase *

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Model		KGE2500X		KGE4000X	
Rated frequency	Hz	50	60	50	60
Rated output	kVA	2	2.2	3.0	3.5
Max. output	kVA	2.2	2.4	3.3	4.0
Rated Voltage	V	115/230	120/240	115/230	120/240
Rated current	A	17.4/8.7	18.3/9.2	26/13	29.2/14.6
Rated rotation speed	rpm	3000	3600	3000	3600
Phase No.		Single phase		Single phase	
Power factor		1.0		1.0	
Insulation grade		B		B	
Pole number		2		2	
Excitation mode		Self-excitation and constant voltage(AVR)		Self-excitation and constant voltage(AVR)	
Panel type		General Panel		General Panel	
Voltage	V	115/230	120/240	115/230	120/240
Output Receptacle		Two receptacles		Two receptacles	
Connection pole		-		-	
DC12V output		Connection pole output		Connection pole output	
Overall dimension: L×W×H	mm	590×430×430		675×520×540	
Dry weight	kg	43		71	
Working assorting weight	kg	60		95	
Noise level(7m)	dB(A)	66		69	
Structure type		Open frame		Open frame	
Engine model		KG200		KG280	
Engine type		Single-cylinder, Four-stroke, OHV, air-cooled		Single-cylinder, four-stroke, OHV,air-cooled	
Cylinder NO.-bore×stroke	mm	1-68×54		1-78×58	
Displacement	ml	196		277	
Max. power	[kW(Hp)/(r/min)]	3.6/3000	4.0/3600	5.0/3000	5.5/3600
Compression ratio		8.5:1		8.5:1	
Rated rotation speed	r/min	3000	3600	3000	3600
Combustion system		T.C.I		T.C.I	
Cooling system		Air cooled		Air cooled	
Lubrication system		Splash		Splash	
Starting system		Recoil starter		Recoil starter	
Fuel type		Automotive unleaded gasoline		Automotive unleaded gasoline	
Lube oil brand		CD grade or SAE10W-30, 15W-40			
Capacity of cooling water	L	-		-	
Lube capacity	L	0.6		1.1	
Starting motor capacity	V-kW	-		-	
Charging generator capacity	V-A	-		-	
Battery capacity	V-Ah	-		-	
Fuel consumption	g/kW·h	395		374	
Fuel tank capacity	L	25		30	
Continuous running time	hr	21.5		20	

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Model		KGE6500X/E		KGE12E/EA	
Rated frequency	Hz	50	60	50	60
Rated output	kVA	5.0	5.5	8.5	9.5
Max. output	kVA	5.5	6.5	9.5	10.5
Rated Voltage	V	115/230	120/240	115/230	120/240
Rated current	A	43.6/21.8	45.8/22.9	73.9/36.9	79.2/39.6
Rated rotation speed	rpm	3000	3600	3000	3600
Phase No.		Single phase		Single phase	
Power factor		1.0		1.0	
Insulation grade		B		F	
Pole number		2		2	
Excitation mode		Self-excitation and constant voltage(AVR)		Self-excitation and constant voltage(AVR)	
Panel type		General Panel		E: General Panel EA: Digital Panel	
Voltage	V	115/230	120/240	115/230	120/240
Output Receptacle		Two receptacles		Two receptacles	
Connection pole		-		-	
DC12V output		Connection pole output (with battery)		-	
Overall dimension: L×W×H	mm	X: 680×510×540	E: 855×510×540	910×600×760	910×600×620(Without wheels)
Dry weight	kg	X: 83	E: 90	161	
Working assorting weight	kg	X: 108	E: 115	175	
Noise level(7m)	dB(A)	74		77	
Structure type		Open frame		Open frame	
Engine model		KG390		KG690	
Engine type		Single-cylinder, four-stroke, OHV, air-cooled		Two-cylinder, V-twin, four-stroke,OHV, air-cooled	
Cylinder No.-bore×stroke	mm	1-88×64		2-78×72	
Displacement	ml	389		688	
Max. power	[kW(Hp)/(r/min)]	7.0/3000	7.7/3600	12.0/3000	14.0/3600
Compression ratio		8.5:1		8.5:1	
Rated rotation speed	r/min	3000	3600	3000	3600
Combustion system		T.C.I		T.C.I	
Cooling system		Air cooled		Air cooled	
Lubrication system		Splash		Pressure splash	
Starting system		X: Recoil starter E: Electric starter		Electric starter	
Fuel type		Automotive unleaded gasoline		Automotive unleaded gasoline	
Lube oil brand		CD grade or SAE10W-30, 15W-40		CD grade or SAE10W-30, 15W-40	
Capacity of cooling water	L	-		-	
Lube capacity	L	1.1		1.3	
Starting motor capacity	V-kW	12V	0.4kW	12V	1.4kW
Charging generator capacity	V-A	12V	8A	12V	8A
Battery capacity	V-Ah	12V	36Ah	12V	50Ah
Fuel consumption	g/kW·h	374		370	
Fuel tank capacity	L	30		23	
Continuous running time	hr	12		5.5	

Gasoline generator

* Three-phase *

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Model		KGE6500E3		KGE6500X3	
Rated frequency	Hz	50	60	50	60
Rated output	kVA	5.6	6.2	5.6	6.2
Max. output	kVA	6	7	6	7
Rated voltage	V	230/400	240/416	230/400	240/416
Rated current	A	8	8.7	8	8.7
Rated rotation speed	rpm	3000	3600	3000	3600
Phase No.		Three phase "Y" type connection		Three phase "Y" type connection	
Power factor		0.8(lag)		0.8(lag)	
Insulation grade		B		B	
Pole number		2		2	
Excitation mode		Self-excitation and constant voltage(AVR)		Self-excitation and constant voltage(AVR)	
Panel type		General Panel		General Panel	
Voltage	V	230/400	240/416	230/400	240/416
Output Receptacle		One single & one three phases receptacles		one single & one three phases receptacles	
Connection pole		-		-	
DC12V output		-		-	
Overall dimension: L×W×H	mm	675×520×540		675×520×540	
Dry weight	kg	90		83	
Working assorting weight	kg	115		108	
Noise level(7m)	dB(A)	74		74	
Structure type		Open frame		Open frame	
Engine model		KG390		KG390	
Engine type		Single cylinder,four stroke,OHV,air-cooled		Single cylinder,four stroke,OHV, air-cooled	
Cylinder No.-bore×stroke	mm	1-88×64		1-88×64	
Displacement	ml	389		389	
Max. power	[kW(Hp)/(r/min)]	7.0/3000	7.7/3600	7.0/3000	7.7/3600
Compression ratio		8.5:1		8.5:1	
Rated rotation speed	r/min	3000	3600	3000	3600
Combustion system		T.C.I		T.C.I	
Cooling system		Air cooled		Air cooled	
Lubrication system		Splash		Splash	
Starting system		Electric starter		Recoil starter	
Fuel type		Automotive unleaded gasoline		Automotive unleaded gasoline	
Lube oil brand		CD grade or SAE10W-30, 15W-40		CD grade or SAE10W-30, 15W-40	
Capacity of cooling water	L	-		-	
Lube capacity	L	1.1		1.1	
Starting motor capacity	V-KW	12V	0.4kW	12V	0.4kW
Charging generator capacity	V-A	12V	8A	12V	8A
Battery capacity	V-Ah	12V	36Ah	12V	36Ah
Fuel comsupton	g/kW-h	374		374	
Fuel tank capacity	L	30		30	
Continuous running time	hr	12		12	

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Model		KGE12E3/EA3	
Rated frequency	Hz	50	60
Rated output	kVA	9.5	10.5
Max. output	kVA	10.5	11.5
Rated Voltage	V	230/400	240/416
Rated current	A	13.7	14.6
Rated rotation speed	rpm	3000	3600
Phase No.		Three phase "Y" type connection	
Power factor		0.8(lag)	
Insulation grade		F	
Pole number		2	
Excitation mode		Self-excitation and constant voltage(AVR)	
Panel type		E3: General Panel	EA3: Digital Panel
Voltage	V	230/400	240/416
Output Receptacle		Two single phases receptacles	
Connection pole		-	
DC12V output		-	
Overall dimension: L×W×H	mm	910×785×710	910×600×620(Without wheels)
Dry weight	kg	161	
Working assorting weight	kg	175	
Noise level(7m)	dB(A)	77	
Structure type		Open frame	
Engine model		KG690	
Engine type		two-cylinder,V-twin,four-stroke,air-cooled,OHV	
Cylinder No.-bore×stroke	mm	2-78×72	
Displacement	ml	688	
Max. power	[kW(Hp)/(r/min)]	12/3000	14/3600
Compression ratio		8.5:1	
Rated rotation speed	r/min	3000	3600
Combustion system		T.C.I	
Cooling system		Air cooled	
Lubrication system		Pressure splashed	
Starting system		Electric starter	
Fuel type		Automotive unleaded gasoline	
Lube oil brand		CD grade or SAE10W-30, 15W-40	
Capacity of cooling water	L	-	
Lube capacity	L	1.3	
Starting motor capacity	V-kW	12V	1.4kW
Charging generator capacity	V-A	12V	8A
Battery capacity	V-Ah	12V	50Ah
Fuel comsupton	g/kW-h	370	
Fuel tank capacity	L	23	
Continuous running time	hr	5.5	



Standard parts&Optional parts&Attached accessories

	Model	KGE12E	KGE2500X	KGE4000X	KGE6500X/E	KGE12E3	KGE6500X3/E3
Standard Parts	1 Air filter	●	●	●	●	●	●
	2 Fuel tank	●	●	●	●	●	●
	3 Muffler	●	●	●	●	●	●
	4 Fuel display gauge	●	●	●	●	●	●
	5 Voltmeter	●	●	●	●	●	●
	6 Current meter	●	—	—	—	●	—
	7 Frequency meter	●	—	—	—	●	—
	8 Timer	●	—	—	—	●	—
	9 Battery voltmeter	●	—	—	—	●	—
	10 AVR	●	●	●	●	●	●
	11 Engine oil alarm system	●	●	●	●	●	●
	12 Breaker	●	●	●	●	●	●
	13 Water temperature alarm system	—	—	—	—	—	—
	14 Electronic fuel feed pump	—	—	—	—	—	—
	15 Preheat unit	—	—	—	—	—	—
	16 Battery	●	—	—	—	●	—
	17 Quadricycle assembly	●	—	—	—	●	—
	18 Radiator(water tank)	—	—	—	—	—	—
	19 Overvoltage/Overfrequency protection	●	—	—	—	●	—
	20 Fuel filter	●	●	●	●	●	●
	21 Automatic refueling device&external fuel tank joint	—	—	—	—	—	—
	22 Emergency stop unit	—	—	—	—	—	—
	23 Over load protection	●	●	●	●	●	●
	24 Charging trouble display	●	—	—	—	●	—
	25 ATS port	—	—	—	—	—	—
	26 Electronic speed regular	●	—	—	●	●	●
Optional Parts	1 ATS	●	—	—	—	●	—
	2 Panel (Digital control/general)	●	—	—	—	●	—
	3 Breaker (leakage protection)	●	●	●	●	●	●
	4 Output receptacle type	●	●	●	●	●	●
	5 Output voltage	●	●	●	●	●	●
	6 Alternator(Brush/Brushless)	●	—	—	—	●	—
	7 Air preheat unit	—	—	—	X type: — E type:●	—	X3 type: — E3 type:●
	8 Battery	—	—	—	X type: — E type:●	—	X3 type: — E3 type:●
	9 Plug	●	●	●	●	●	●
	10 Quadricycle assembly	—	—	●	●	—	●
	11 Remote starter	—	—	—	—	—	—
Attached accessory	1 Generator set operation manual	one	one	one	one	one	one
	2 Engine operation manual	Optional	Optional	Optional	Optional	Optional	Optional
	3 Assembly& spare parts album(engine)	Optional	Optional	Optional	Optional	Optional	Optional
	4 Assembly& spare parts album(generator set)	Optional	Optional	Optional	Optional	Optional	Optional
	5 Alternator specification	—	—	—	—	—	—
	6 Operation manual of digital panel	one	—	—	—	one	—
	7 Certificate of quality	one sheet	one sheet	one sheet	one sheet	one sheet	one sheet
	8 Spark plug socket wrench	one pc	one pc	one pc	one pc	one pc	one pc
	9 Fuse link	—	—	—	—	—	—
	10 Fuse pipe	two pcs	two pcs	two pcs	two pcs	two pcs	two pcs
	11 Generator set service manual	Optional	Optional	Optional	Optional	Optional	Optional
	12 Tool kit	one Kit	—	—	—	one Kit	—
	13 Oil pot	one pc	one pc	one pc	one pc	one pc	one pc
	14 Rain-proof	—	—	—	—	—	—
	15 Wrench for nozzle	—	—	—	—	—	—

Special feature || || || | | | | | | | |