

EKVIVES

Gas generators								
								
Generator model	EKV-NG-8E/S-A	EKV-NG-8E3/S-A	EKV-NG-10E/S-A	EKV-NG-10E3/S-A	EKV-NG-13E/S-A	EKV-NG-13E3/S-A	EKV-NG-15E/S-A	EKV-NG-15E3/S-A
Fuel type	natural gas, liquefied gas	natural gas, liquefied gas	natural gas, liquefied gas	natural gas, liquefied gas	natural gas, liquefied gas	natural gas, liquefied gas	natural gas, liquefied gas	natural gas, liquefied gas
Cooling system	Liquid cooling	Liquid cooling	Liquid cooling	Liquid cooling	Liquid cooling	Liquid cooling	Liquid cooling	Liquid cooling
Rated power, kW/kVA (Liquefied petroleum gas)	8 kW	10 kVA	10 kW	12.5 kVA	13 kW	16.3 kVA	15 kW	18.8 kVA
Rated power, kW/kVA (natural gas)	8/10	8/10	10/12.5	10/12.5	13/16.3	13/16.3	14/17.5	14/17.5
Rated voltage 1phase/3phase, V	230	230/400	230	230/400	230	230/400	230	230/400
Rated current, A (Liquefied petroleum gas)	34.7	14.5	43.5	18.1	56.5	23.6	65.2	27.2
Rated current, A (natural gas)	34.7	14.5	43.5	18.1	56.5	23.6	61	25.4
Number of phases	1	3	1	3	1	3	1	3
Engine/generator speed, rpm	3000	3000	3000	3000	3000	3000	3000	3000
Power factor, cos φ	1.0	0.8	1.0	0.8	1.0	0.8	1.0	0.8
Engine								
Warranty, months	12	12	12	12	12	12	12	12
Engine model	465QR	465QR	465QR	465QR	465QR	465QR	465QR	465QR
Volume, cubic cm	1016	1016	1016	1016	1016	1016	1016	1016
Compression ratio	9.5:1	9.5:1	9.5:1	9.5:1	9.5:1	9.5:1	9.5:1	9.5:1
Ignition system	ECM ignition (electronic control module)	ECM ignition (electronic control module)	ECM ignition (electronic control module)	ECM ignition (electronic control module)	ECM ignition (electronic control module)	ECM ignition (electronic control module)	ECM ignition (electronic control module)	ECM ignition (electronic control module)
Electric start	Yes	Yes	Yes	Yes	Yes	Yeah	Yeah	Yes
Starting the engine	QDY112 12V 0.8kW	QDY112 12V 0.8kW	QDY112 12V 0.8kW	L4-65.5×74	QDY112 12V 0.8kW	QDY112 12V 0.8kW	QDY112 12V 0.8kW	QDY112 12V 0.8kW
Piston diameter x stroke (mm×mm)	L4-65.5×74	L4-65.5×74	L4-65.5×74	L4-65.5×74	L4-65.5×74	L4-65.5×74	L4-65.5×74	L4-65.5×74
Type of aspiration	natural	natural	natural	natural	natural	natural	natural	natural
Engine oil capacity, dry/non-dry system, l	4/3.5	4/3.5	4/3,5	4/3.5	4/3.5	4/3.5	4/3.5	4/3.5
Rotary type oil filter	Yes	Yes	Yes	Yes	Yes	Yeah	Yeah	Yes
Shutdown at low oil level	Yes	Yes	Yes	Yes	Yes	Yeah	Yeah	Yes
Alternator								
Type	Synchronous generator, rotating magnetic field	Synchronous generator, rotating magnetic field	Synchronous generator, rotating magnetic field	Synchronous generator, rotating magnetic field	Synchronous generator, rotating magnetic field	Synchronous generator, rotating magnetic field	Synchronous generator, rotating magnetic field	Synchronous generator, rotating magnetic field
Voltage regulation system	AVR	AVR	AVR	AVR	AVR	AVR	AVR	AVR
Excitement	Brush	Brush	Brush	Brush	Brush	Brush	Brush	Brush
Number of poles	2	2	2	2	2	2	2	2

Total harmonic distortion (THD) at full load	≤ 5%	≤ 5%	≤ 5%	≤ 5%	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Insulation class	F	F	F	F	F	F	F	F
Stator winding material	Copper	Copper is the material of the stator winding	Copper	Copper	Copper	Copper	Copper	Copper
Rotor winding material	Copper	Copper	Copper	Copper	Copper	Copper	Copper	Copper
Connection method	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
Steady state voltage								
Type	electric	electric	electric	electric	electric	electric	electric	electric
Sensor	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3
Voltage regulation	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
Regulator								
Type	electric	electric	electric	electric	electric	electric	electric	electric
Frequency control from no load to full load	synchronous	synchronous	synchronous	synchronous	synchronous	synchronous	synchronous	synchronous
Constant frequency control	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
Controller								
Location of the controller	inside, in the upper part	inside, in the upper part	inside, in the upper part	inside, at the top	inside, at the top	inside, at the top	inside, at the top	inside, at the top
Controller model	HSC940	HSC940	HSC940	HSC940	HSC940	HSC940	HSC940	HSC940
Automatic/manual shutdown	Yes	Yes	Yes	Yes	Yes	Yeah	Yeah	Yes
Alternator voltage measurement	Yes	Yes	Yes	Yes	Yes	Yeah	Yeah	Yes
Low oil level protection	Yes	Yes	Yes	Yes	Yes	Yeah.	Yes	Yes
Protection against overvoltage	Yes	Yes	Yes	Yes	Yes	Yeah	Yeah	Yes
Low frequency current protection	Yes	Yes	Yes	Yes	Yes	Yeah	Yeah	Yes
Body								
Housing	Powder coating	Powder coating	Powder coating	Powder coating	Powder coating	Powder coating	Powder coating	Powder coating
Warranty, months	12	12	12	12	12	12	12	12
Degree of protection	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
Emergency shutdown	Yes	Yes	Yes	Yes	Yes	Yeah	Yeah	Yes
Fuel solenoid valve	double electromagnetic	double electromagnetic	double electromagnetic	double electromagnetic	double electromagnetic	double electromagnetic	double electromagnetic	double electromagnetic
Closed type silencer	Yes	Yes	Yes	Yes	Yes	Yeah	Yeah	Yes
Noise insulation	Double metal plate+ soundproof cotton	Double metal plate+ soundproof cotton	Double metal plate+ soundproof cotton	Double metal plate+ soundproof cotton	Double metal plate+ soundproof cotton	Double metal plate+ soundproof cotton	Double metal plate+ soundproof cotton	Double metal plate+ soundproof cotton
Noise level at normal speed, distance 7 m, dB	69	69	72	72	73	73	73	73
Natural gas consumption at 100% load, m3/h	5.6	5.6	5.8	5.8	6.3	6.3	6.6	6.6
LPG consumption at 100% load, kg/h	3.4	3.4	3.6	3.6	3.7	3.7	3.8	3.8
Natural gas pressure range, kPa	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5
Liquefied gas pressure range, kPa	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5	1.7-3.5
Dimensions (L×W×H), mm	1376×810×960	1376×810×960	1376×810×960	1376×810×960	1376×810×960	1376×810×960	1376×810×960	1376×810×960
Package dimensions (L×W×H), mm	1400×868×1123	1400×868×1123	1400×868×1123	1400×868×1123	1400×868×1123	1400×868×1123	1400×868×1123	1400×868×1123
Net/gross weight, kg	339/374	339/374	342/377	342/377	345/380	345/380	343/390	343/390