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**TECHNICAL SPECIFICATION 1EA5KhM-N  
PORTABLE 5 kW DIESEL ELECTRIC GENERATING SET WITH TROLLEY**



**Note: Available power range 4-5 kWe (3-phase or single phase)**

<b>Generating set model</b>	<b>1EA5KhM-N</b>
Manufacturer	SIA "RĪGAS DĪZELIS DG"
Execution	In canopy, with trolley
Prime Power (PRP)	5,0 kW (5,0 kVA, if $\cos \phi = 1,0$ )
Power factor $\cos \phi$	0,6 – 1,0
Frequency	50 Hz $\pm$ 1,5%
Voltage	1 phase, 230 V $\pm$ 2.5%
<b>Note: Genset provides the power equal to the rated power at the consumer power factor <math>\cos \phi = 0.6</math></b>	
Standards compliance	European Union directives: 2006/42 / EC, 2014/35 / EC, 2014/30 / EC, 2000/14 / EC, 97/68 / EC ISO 8528-1, ISO 8528-5, ISO 8528-13.4.3
Emission class	Not emitted / EU Stage V
Operating environment (with corresponding power reduction)	-30°C to +50 °C
Dimensions (excluding trolley)	756 x 546 x 603 (H) mm
Dry Weight (excluding options and trolley)	~ 160 kg
<b>Diesel engine</b>	<b>15LD440 Lombardini / Kohler (Italy)</b>
Number of cylinders	1
Speed	3000 RPM
Cooling system	Air-forced
Starting system	Electric starter with starting battery, charging alternator on engine.
Exhaust system	Downward-pointing exhaust system (output at the bottom of the side panel), with flexible compensator and silencer, integrated inside the canopy
Fuel	According to EN590 and STANAG 7090

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Fuel consumption at 100% load	1,83 l/h
Fuel consumption at 75% load	1,4 l/h
Fuel consumption at 50% load	0.95 l/h
Fuel tank capacity	5 l
Oils and technical fluids	According to NATO STANAG 1135;
<b>Alternator (over-sized for <math>\cos\varphi = 0,6</math> &amp; IP54)</b>	<b>European top class alternator, special model, 5,0 kWe for <math>\cos\varphi = 0,6</math> &amp; IP54</b>
Execution	2-poles, single bearing, self-excited, brushless, with AVR
Protection class	IP54
Insulation class	H
<b>Housing</b>	Closed-type metal construction with lockable service panels filled with sound-proof material
Lifting	Central lifting hook
Set of handles	Four handles that do not go beyond the frame and body dimensions. Two handles on each side, folding in convenient position for movement.
Noise level	71 dBA at 7 m
Color	RAL 6031, 6003 (Matt, F9) or other at request of the customer
Paints	Oil and technical liquid resistant according to NATO standard AEP-65
<b>Control panel</b>	
Controls and protections (or acc. to customer's requirements)	- Analog voltmeter; - Analog ammeter; - Engine hour counter; - Low oil pressure indicator; - Low fuel level indicator; - Insulation test button with indicator; - Alarm / protection: low oil pressure, low fuel level, overload / short circuit;
Electrical protection	IP65
Emergency stop button	+
Sockets	- 16A, 230 V 2P+E (Schuko) x 2 pcs. - 32A, 230 V 2P+E x 1 pc. CEE type, protection class – IP67; equipped with an automatic fuse that meets at least the standards of IEC/EN 60947-2, IEC / EN 60898-1; made of green plastic corresponding to NATO GREEN color RAL 6031; painted sockets are not used.
<b>Included options and Documetation</b>	
Set of standard tools	+
Operational manual for complete generating set	+ (English language, other languages on request)
Spare parts catalogs	+ (in English language)
Package of design documentation (drawings, diagrams, etc.)	+ (in English language)
Factory test report	+
<b>Other</b>	
Delivery	On request
Training	On request
Warranty	24 months from delivery (but not more than 1000 operating hours)

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Maintenance	On request
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Options	
1	Grounding kit with 5-m cable with yellow-green insulation and 1-meter hot-dip galvanized steel ground rod with screw thread and handle for screwing into the ground;
2	Trolley: frame with four wheels, with pumping chambers, so that the genset can be moved by push; wheels of the appropriate width, so that it can be moved on a sandy surface; additionally, equipped with lifting holes and wheel locking mechanism (brake);
3	Adapter cable 30 m on a reel with CEE type sockets (16A, 230V AC, Schuko, with 16A fuse) - 3 pcs., with CEE type plug (32A, 230V AC, 2P + E) and 3 x 4 mm <sup>2</sup> flexible rubber cable H07RN-F (acc. to EN 50525-2-21); A reel with integrated power leakage breakers for each socket separately, operating under conditions of selectivity between the generator and reel, which is equipped with an IP 67 fuse;
4	Sealed valve system that allows to quickly switch from the unit's fuel tank to a 20-liter standard NATO canister with two hoses (canister is not included);
5	Additional 20 l fuel canister(s), RAL 6031, 6003 (F9) or other color under request.
6	Set of filters for maintenance during warranty period (for 500 or 1000 operating hours)



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