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TECHNICAL SPECIFICATION No. RD-MOD-50/0421-02
MOBILE 33 kW ELECTRIC GENERATOR ARMOURED TRAILER TYPE (CUSTOM)



Generating set model	E42D2MA_sST-N
Manufacturer	SIA "RĪGAS DĪZELIS DG"
Special design for anti-radar protection	Housing design without 90 degree angles
Execution	In canopy, on trailer
Prime Power (PRP)	33 kW (41,25 kVA)
Standby Power (ESP)	36,3 kW (45,38 kVA)
Compliance with required ratings	At an altitude of 3000 m
Frequency	50 Hz ± 3%
Voltage	3 phase, 400/230 V ± 1.5%
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
Governing standards	G2
Emission class	Stage IIIA
Operating environment	-30°C to +50°C
Dimensions (including trailer)	~6584 x 2365 x 2570(H) mm
Weight (filled with all liquids & including trailer)	~6000 kg
Engine	TCD2013L04 2V

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	DEUTZ (Germany)
Number of cylinders	L-4
Speed	1500 RPM
Cooling system	Liquid (Radiator type)
Autonomous engine preheating system	<u>Special fuel type engine liquid preheater</u>
Starting system	Electric starter with starting batteries, charging alternator on engine and static charging device
Exhaust system	Downward exhaust system with flexible compensator and silencer (integrated inside the canopy)
Fuel	According to EN590
Consumption at 100% load	10,5 l
Alternator	Mecc Alte (Italy), or EU analog
Execution	Single bearing, self-excited, brushless, with AVR
Protection class	IP23
Insulation class	H
Control panel	Based on microprocessor type controller
Extra heating included	+ Control panel heating system for operation under low temperatures
The control panel records and measures:	<ul style="list-style-type: none"> - motor hours; - fuel level; - generator frequency; - generator voltage; - generator voltage asymmetry; - (public electricity) network frequency; - (public electricity) network voltage; - power factor $\cos \phi$;
The control panel is equipped with an analogue control measuring instrument panel that records and measures:	<ul style="list-style-type: none"> - voltage; - current; - frequency; - coolant temperature; - oil pressure; - oil temperature; - fuel level;
Alarms and protections	Low oil pressure, high oil /liquid temperature, overspeed, overload, short circuit
Control panel electrical protection	IP65
AMF & ATS function	+ (including parallel operation with other generating sets and / or mains)
Emergency stop button	+
Canopy of special anti-radar design	Custom-made, without 90 degree angles between planes (85°-95° angles are not allowed), weather proof, "SILENT" type, with lockable service doors
Special steel	470-530 HBW steel (thickness 2,5 - 4 mm)
Noise level	65 dBA at 7 m
Color	NATO Green RAL 6031 (F9) or other specified
Corrosion resistance	Over 15 years (Corrosivity category C5-M)
Built in frame fuel tank	<u>Double walled</u> fuel tank; Volume enough for 12 h operation at 100% load
Genset distribution panel with sockets and plug	<ul style="list-style-type: none"> -400V 3P+N+E 63A sockets – 1 pcs.; -400V 3P+N+E 32A sockets – 2 pcs.; -400V 3P+N+E 16A sockets – 2 pcs.; -230V 2P+E 16A sockets – 3pcs.; -230V 2P+E 16A sockets (SCHUKO) – 3pcs.;

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	<p>-230V 2P+E 16A plug (SCHUKO) – 1 pcs.;</p> <p>-All sockets and plug protection class – IP67</p> <p>- All sockets are equipped with an automatic fuse that meets at least the standards of IEC/EN 60947-2, IEC / EN 60898-1;</p> <p>- All sockets and plugs are built into the housing and are numbered with the appropriate automatic switches;</p> <p>- Sockets are built in 45° ± 3° towards the horizon, other angle is not allowed;</p> <p>- All sockets and plugs are made of green plastic corresponding to NATO GREEN color RAL6031, painted sockets and plugs are not used;</p> <p>- All sockets and plugs shall comply with the following standards EN 60309-2, EN 60309-1 or equivalents;</p> <p>- 400V 3p+N + E 63 A socket is equipped with a contact that ensures the disconnection of the voltage in the socket before disconnecting the plug;</p>
Pockets in frame for lifting by forklift	+
Lifting loops on canopy roof and frame	+
Doors	Doors are equipped with gas springs and handles with locks
Trailer	
Special design for both cross country and expressway use	Two-axle, heavy duty, high speed trailer, suitable for speed at least 60 km/h
Coupling mechanism	Height - adjustable (0,48-1,1 m)
Towing eye	Ø76 mm (acc. STANAG 4101)
Brakes	Pneumatic (in accordance to actual requirements for trailers in end customer country)
ABC	+
Wheels	With winter tires
Connection to the vehicle	12-pins plug (in accordance with STANAG 4135)
Clearance (possible versions: 30-34 cm under request)	At least 30 cm
Color	RAL 6031 (F9)
Spare wheel	+
Lifting loops for lifting by crane (together with generating set)	+
Road safety Insurance included	+ (1 year)
Registration in Road Police office included	Registration of Trailer with generating set as one-piece vehicle (not only separate trailer)
Other included options	
Additional heating systems	Three different heating systems for engine and switchboard
Refueling system	Electric & manual refueling pump
Manual pump for pumping oil from the crankcase	+
Additional fuel filter-separator	+
Powder fire extinguisher (6 kg)	+
Power cable	+ (25 m)
Built-in cable reel(s) with electric and/or manual drive	+ (1 reel)
Equipment for connecting external batteries for generating set starting	VDA 72593 or equivalent socket; 2-pole, 24 V, 4 m cable, 2x35 mm ² , with VDA 72593 or equivalent plugs
Grounding equipment set (1.5 m long rod and hammer) with 15 m cable	+
Mobile electric distribution box (1 pc):	+
	-Special sliding design for easy unloading and loading into the trailer;

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- Metal body (protection class IP65);
- Dimensions (length/width/height):500/500/500 mm ± 100 mm;
- Two handles for carrying on the top;
- Distribution support legs at 150 mm from the ground;
- Paint coating: RAL 6031, F9.
- Equipped with CEE sockets and plugs with protection class IP67:
 - 400V 3P+N + E 63A plug with cap – 1 pc;
 - 400V 3P+N + E 63A socket – 1 pc;
 - 400V 3p+N+E 32A socket - 3 pcs;
 - 400V 3p+N+E 16A socket – 3 pcs;
 - 230V 2p+E 32A socket - 3 pcs;
 - 230V 2p+E 16A socket - 3 pcs;
 - 230V 2P+E 16A socket CEE 7/3 – SCHUKO) - 3 pcs.
- All sockets and plugs are built into the housing and are numbered with the appropriate automatic switches;
- All sockets and plugs are made of green plastic corresponding to NATO GREEN color RAL6031. Painted sockets and plugs are not used.
- All sockets and plugs meet the following standards EN 60309-2, EN 60309-1 or equivalents, Environmental Protection class at least IP67;
- All sockets equipped with the appropriate automatic fuse, are numbered according to the numbering of sockets;
- Three red colored LED indicator 230V AC on DIN rail before main input to signal incoming voltage to distribution box in each phase.

Set of tools for maintenance	+
Set of filters for maintenance during warranty period (but not more than 1000 operating hours)	+
Documentation	
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)
CE certificate of conformity	+
Factory test report	+
Other	
Delivery	On request
Acceptance	Fuel for 30 min. test is included
Training	Customer's personal training is included (during generating set acceptance)
Warranty	24 months from delivery (but not more than 1000 operating hours)
Maintenance	On request



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