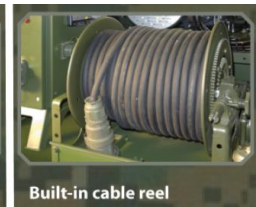


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| Date: | 22.04.2021 |
| Revision: | Rev1 |

**TECHNICAL SPECIFICATION No. RD-MOD-50/0421-02.2
MOBILE 50 kW ELECTRIC GENERATOR ARMOURED TRAILER TYPE (CUSTOM)**



| Generating set model | E62D2MA_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) | 50 kW (62,5 kVA) |
| Standby Power (ESP) | 55 kW (68,75 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 |

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| 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 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 | 16,3 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 | + |


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| 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 125A plug with cap - 1 pc.; -400V 3P+N+E 125A socket - 1 pc.; -400V 3P+N+E 63A sockets – 2 pcs.; -400V 3P+N+E 32A sockets – 3 pcs.; -400V 3P+N+E 16A sockets – 3 pcs.; -230V 2P+E 32A sockets – 2pcs.; -230V 2P+E 16A sockets – 2pcs.; -All sockets and plug protection class – IP67 - All sockets are equipped with an automatic fuse that meets at least the standards of IEC/EN 60947-2, IEC / EN 60898-1; - All sockets and plugs are built into the housing and are numbered with the appropriate automatic switches; - Sockets are built in $45^\circ \pm 3^\circ$ towards the horizon, other angle is not allowed; - All sockets and plugs are made of green plastic corresponding to NATO GREEN color RAL6031, painted sockets and plugs are not allowed; - All sockets and plugs shall comply with the following standards EN 60309-2, EN 60309-1 or equivalents; - 400V 3p+N + E 125 A socket is equipped with a contact that ensures the disconnection of the voltage in the socket before disconnecting the plug; |
| 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) |

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| 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): | + |
|  | <ul style="list-style-type: none"> -Special sliding design for easy unloading and loading into the trailer; -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: <ul style="list-style-type: none"> - 400V 3P+N + E 125A plug with cap – 1 pc; - 400V 3P+N + E 63A socket – 1 pc; - 400V 3p+N+E 32A socket - 4 pcs; - 400V 3p+N+E 16A socket – 4 pcs; - 230V 2p+E 32A socket - 3 pcs; - 230V 2p+E 16A socket - 3 pcs; |

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| | <p>- 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 allowed. -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.</p> |
| 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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