



# Experience and modernity



GRUPA GWARANT

50 years tradition in production of generating sets

<p><b>Engines</b></p> <ul style="list-style-type: none"> <li>- diesel engines</li> <li>ANDORIA, RUGGERINI, DAEWOO, PERKINS, MAN</li> </ul>	<p><b>Generator</b></p> <ul style="list-style-type: none"> <li>- generators of world renowned manufacturers:</li> <li>MARELLI, SINCRO, LINZ, MECCALTE</li> </ul>	<p><b>Construction of the set</b></p> <ul style="list-style-type: none"> <li>- the set mounted with shock absorbers on steel frame,</li> <li>- complete electrical-start up, fuel, cooling lubrication installation and control panel,</li> </ul>	<p><b>Use</b></p> <ul style="list-style-type: none"> <li>- Generating sets are used to supply electric power to land light and power receivers,</li> <li>- supply of electronic devices (UPS, inverters, rectifiers, softstarters)</li> </ul>	<p><b>Standard equipment of generating sets</b></p> <ul style="list-style-type: none"> <li>- overload-circuit turn off</li> <li>- fuel tank - about 8 hours</li> <li>- work control and supervision - microprocessor</li> <li>- muffler + vibration compensator</li> <li>- starting battery</li> <li>- device which assists start-up in low temperatures</li> <li>- ATS system - Automatic Transfer Switch (relates to automatic generating set)</li> <li>- battery charger (relates to automatic generating set)</li> </ul>
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### Individual approach to the client

- generating sets can be produced in accordance to individual requirements of the client (control from the computer, mobile phone control, cooperation with complex objects systems)

### Individual approach to the client

- Andoria-Mot use quality management according to ISO/TS 16949
- generating sets meet the requirements of the European Union
- devices have CE mark,



# Generating Sets



GRUPA GWARANT

Technical data of three-phase 400/230V, 50Hz power 55-450kVA offered by Andoria - Mot Sp. z o.o. (generating sets with diesel engines Lovol and Doosan)

Parameters	Sets Types	ZET J68PR	ZET J80PR	ZET J94PR	ZET J116PR	ZET J150PR	ZET J160PR	ZET J180DW	ZET J205DW	ZET J235DW	ZET J275DW	ZET J330DW	ZET J385DW	ZET J450DW
Set Power [kVA/kW]		62/49,6	72/57,6	86/68	109/84	131/104,8	141/112,8	165/132	185/148	206/165	250/200	300/240	350/280	406/325
Engine (Manufacturer/Type)		LOVOL 1004TG 1004TG	LOVOL 1004TG 1004TG	LOVOL 1006TG1A 1006TG2A	LOVOL 1006TG2A 1006TG2A	LOVOL 1006TAG 1006TAG	LOVOL 1006TAG 1006TAG	DOOSAN P086TI	DOOSAN P086TI	DOOSAN P086TI	DOOSAN P126THI	DOOSAN P126THI	DOOSAN P158LE	DOOSAN P158LE
Engine Power [kW]		72,3	72,3	92,7	102	134	134	199	199	199	294	294	414	414
Number of cylinders		4	4	6	6	6	6	6	6	6	6	6	8	8
Displacement [dm <sup>3</sup> ]		4	4	6	6	6	6	8,1	8,1	8,1	11,1	11,1	14,6	14,6
Rated Power [rpm]		1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Fuel consumption [l/h]		15,3	18,2	21,5	25,3	30	31,5	33,4	38,1	43,1	51,9	63,1	69,8	82,7
Cooling		liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid
Generator (Manufacturer)		MARELLI	MARELLI	MARELLI	MARELLI	MARELLI	MARELLI	MARELLI	MARELLI	MARELLI	MARELLI	MARELLI	MARELLI	MARELLI
Fuel tank capacity [l]		114	114	144	144	144	144	345	345	345	380	380	685	685
Electric System [V]		12	12	12	12	12	12	24	24	24	24	24	24	24
Dryset weight [kg]		922	952	1210	1250	1340	1400	1730	1750	1860	2120	2230	2930	2970
Dimensions [m]	length	2	2	2,4	2,4	2,4	2,4	3	3	3	3	3	3	3
	width	0,75	0,75	0,75	0,75	0,75	0,75	0,95	0,95	0,95	1	1	1,3	1,3
	height	1,27	1,27	1,36	1,36	1,53	1,53	1,53	1,53	1,53	1,57	1,57	1,87	1,87

Technical data of three phase generating sets 400/230V, 50Hz power 10-45kVA offered by Andoria-Mot Sp. z o.o.

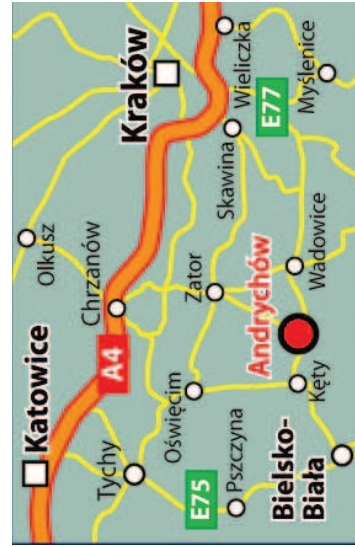
(Generating sets with diesel engines Lombardini i Andoria)

Parameters	Sets Types	ZERD210	ZERD290	ZE4C90	ZE4C90	ZE4C90
Set Power [kVA/kW]		12/09,2006	16/14,4	20/16	20/16	30/24
Engine (Manufacturer/Type)		Lombardini 12LD477/2 B1	Lombardini 9LD625/2	ANDORIA 4C90	ANDORIA 4C90	ANDORIA 4C90
Engine Power [kW]		12,9	18	29	29	29
Number of cylinders		2	2	4	4	4
Displacement [dm <sup>3</sup> ]		0,95	0,95	2,42	2,42	2,42
Rated Power [rpm]		3000	3000	3000	3000	3000
Fuel consumption [l/h]		3,8	5,1	6,9	6,9	9,2
Cooling		air	air	liquid	liquid	liquid
Generator (Manufacturer)		LINZ	LINZ	LINZ	LINZ	MECC ALTE
Fuel tank capacity [l]		45	45	120	120	120
Electric System [V]		12	12	12	12	12
Dryset weight [kg]		230	260	535	535	580
Dimensions [m]	length	1	1	1,82	1,82	1,82
	width	0,6	0,6	0,82	0,82	0,82
	height	0,7	0,7	1,72	1,72	1,72

Generating sets can be stationary and portable, without housing and with soundproof housing, as well as with automatic and electric start.

Generating sets with power more than 50 kVA with DOOSAN and LOVOL engines are available on an individual order.

Andoria - Mot also offers a single-phase generators with petrol engines and tractors generating sets.



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