

GAS RANGE



**CLEAN, RELIABLE AND
SUSTAINABLE POWER**

www.grupel.eu

ENERGY EVERYWHERE



GRUPEL GASRANGE

The increasing usage of gas on power generation, in industry and at our homes as well, has an impact in the energy production. The gas applications are typically more economical and environmentally friendly.

Grupel presents its gas-powered generators, with the following characteristics:

// Use of engines with great reliability using different type of fuels such as like:

Natural Gas // Biogas // LPG/GPL

// Wide range of powers: 5 kW up to 4500 kW, covering all the possible applications

*Grupel's factory is equipped with a Gas Gensets Testing Area,
where the Gas Range is fully set up before its shipment.*

Gas gensets advantages:

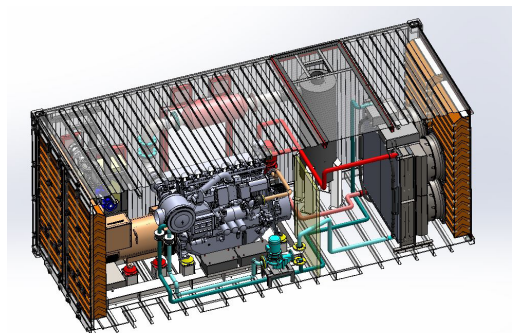
- .. The produced electricity may cover the total installation demand and the excess may be exported to the grid as well
- .. The high efficiency of cogeneration and/or trigeneration applications allows savings up to 40% compared to other standard systems, resulting in a ROI much quicker
- .. Emission retail gas toxic and harmful such as: carbon dioxide, sulphur dioxide and nitric dioxide
- .. Acoustic noise levels are lower.

BASIC SCOPE OF SUPPLY

- .. 4 Stroke combustion engine
- .. Self excited alternator ip21/ip23 class H
- .. Steel baseframe with anti-vibration pads
- .. Cooling radiator or plate heat exchanger
- .. Control panel with measuring devices and control unit
- .. Automatic switch breaker
- .. Gas train ramp fully equipped
- .. Steel residential exhaust system

OPTIONS

- .. Soundproofed steel protection enclosure and weather protection
- .. Automatic oil level control
- .. Engine pre-heating
- .. stainless steel exhaust system
- .. ATS panel
- .. Remote control
- .. Multiple unit synchronization



GASRANGE POWER PLANTS

Modularity

Modular Power Plants completely installed in ISO20 and/or ISO40 maritime containers. This new design includes the incorporation of many elements needed on the plant in a “Plug-In” mode, thereby increasing the flexibility, quick installation, and better adjustment to the total power output required on each application.

- Better for a future expansion of the power plant
- Reducing the cost of Civil Works
- Better time response on its shipping to site
- Logistics cost reduction
- Much easier to move the entire Power Plant to another site
- Easier maintenance
- Turnkey projects
- Rental
- Private investors

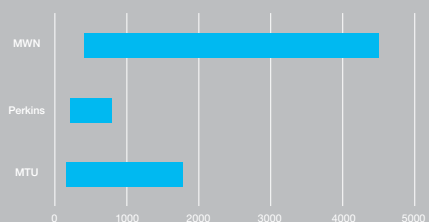


POWERRANGE 50 Hz 60 Hz

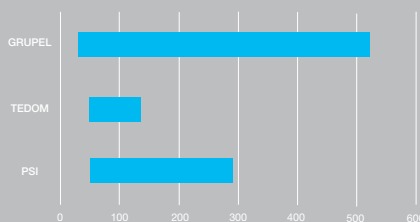
Power range as per engine type

50 Hz

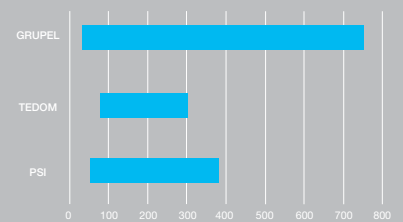
KW COP



KW PRP



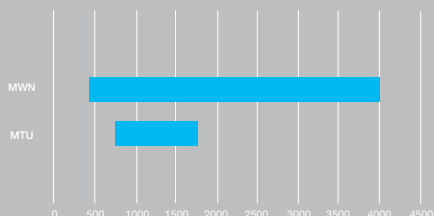
KW STP



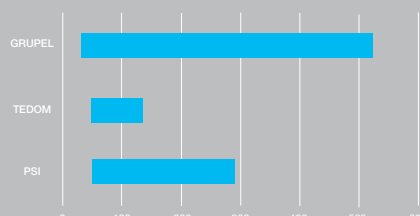
Power range as per engine type

60 Hz

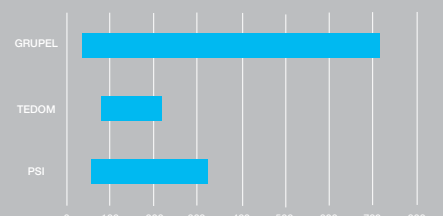
KW COP



KW PRP



KW STP



POWER RANGE / NATURAL GAS

LOW / MEDIUM RANGE								
Engine	Model	Pn (KVA) 50Hz			Model	Pn (KVA) 60Hz		
		COP	PRP	STP		COP	PRP	STP
PSI	G0032PS5T400G	--	29	32	G0038PS8T480G	--	34	38
	G0041PS5T400G	--	37	41	G0049PS8T480G	--	44	49
	G0069PS5T400G	--	62	69	G0080PS8T480G	--	72	80
	G00106PS5T400G	--	95	106	G00124PS8T480G	--	111	124
	G00163PS5T400G	--	147	163	G00194PS8T480G	--	164	194
	G00220PS5T400G	--	200	220	G00253PS8T480G	--	224	253
	G00275PS5T400G	--	250	275	G00378PS8T480G	--	320	378
	G00418PS5T400G	--	376	418	G00550PS8T480G	--	472	550
TEDOM	G0093PS5T400G	93	--	--	G00107PS8T480G	107	--	--
	G00121PS5T400G	121	--	--	--	--	--	--
	G00148PS5T400G	148	--	--	G00172PS8T480G	172	--	--
	G00192PS5T400G	192	--	--	--	--	--	--
	G00214PS5T400G	214	--	--	G0224PS8T480G	224	--	--
	G00238PS5T400G	238	--	--	--	--	--	--
GRUPEL	G0043GR5T400G	--	37	43	G0046GR8T480G	--	42	46
	G0073GR5T400G	--	66	73	G0071GR8T480G	--	64	71
	G0077GR5T400G	--	77	77	G0083GR8T480G	--	76	83
	G00107GR5T400G	--	96	107	G00126GR8T480G	--	114	126
	G00132GR5T400G	--	125	132	G00143GR8T480G	--	130	143
	G00175GR5T400G	--	160	175	--	--	--	--
	G00220GR5T400G	--	200	220	G00220GR8T480G	--	200	220
	G00222GR5T400G	--	222	222	G00235GR8T480G	--	225	235
	G00259GR5T400G	--	238	259	--	--	--	--
	G00261GR5T400G	--	250	261	--	--	--	--
	G00316GR5T400G	--	287	316	G00301GR8T480G	--	273	301
	G00318GR5T400G	--	300	318	G00342GR8T480G	--	309	342
	G00683GR5T400G	--	619	683	G00733GR8T480G	--	644	733
HIGH RANGE								
Engine	Model	Pn (KVA) 50Hz			Model	Pn (KVA) 60Hz		
		COP	PRP	STP		COP	PRP	STP
MTU	G0970MT5T400G	970	--	--	G0970MT8T480G	970	--	--
	G01068MT5T400G	1068	--	--	G01068MT8T480G	1068	--	--
	G01265MT5T400G	1265	--	--	--	--	--	--
	G01608MT5T400G	1608	--	--	G01590MT8T480G	1590	--	--
	G01904MT5T400G	1904	--	--	--	--	--	--
	G02148MT5T400G	2148	--	--	G02131MT8T480G	2131	--	--
	G02500MT5T400G	2500	--	--	--	--	--	--
	G02535MT5T400G	2535	--	--	--	--	--	--
	G02681MT5T400G	2681	--	--	G02661MT8T480G	2661	--	--
	G03169MT5T400G	3169	--	--	--	--	--	--
MWN	G0500MW5T400G	500	--	--	G0500MW8T480G	500	--	--
	G0750MW5T400G	750	--	--	G0750MW8T480G	750	--	--
	G01000MW5T400G	1000	--	--	G01000MW8T480G	1000	--	--
	G01500MW5T400G	1500	--	--	G01500MW8T480G	1500	--	--
	G01950MW5T400G	1950	--	--	G01950MW8T480G	1950	--	--
	G02500MW5T400G	2500	--	--	--	--	--	--
	G04166MW5T400G	4166	--	--	G04166MW8T480G	4166	--	--
PERKINS	G0384PK5T400G	384	--	--	--	--	--	--
	G0469MT5T400G	469	--	--	--	--	--	--
	G0531MT5T400G	531	--	--	--	--	--	--
	G0625MT5T400G	625	--	--	--	--	--	--
	G0750MT5T400G	750	--	--	--	--	--	--
	G01094MT5T400G	1094	--	--	--	--	--	--
	G01250MT5T400G	1250	--	--	--	--	--	--

POWER RANGE / BIOGAS

Engine	Model	Pn (KVA) 50Hz			Model	Pn (KVA) 60Hz		
		COP	PRP	STP		COP	PRP	STP
GRUPEL	G0034GRLS5T400B		30	34	G0037GRLS8T480B		34	37
	G0058GRLS5T400B		53	58	G0057GRLS8T480B		51	57
	G0062GRLS5T400B		62	62	G0066GRLS8T480B		61	66
	G0086GRLS5T400B		77	86	G00101GRLS8T480B		91	101
	G00106GRLS5T400B		100	106	G00114GRLS8T480B		104	114
	G00140GRLS5T400B		128	140	--	--	--	--
	G00176GRLS5T400B		160	176	G00176GRLS8T480B		160	176
	G00178GRLS5T400B		178	178	G00188GRLS8T480B		180	188
	G00209GRLS5T400B		200	209	--	--	--	--
	G00253GRLS5T400B		239	253	G00241GRLS8T480B		218	241
	G00254GRLS5T400B		240	254	G00274GRLS8T480B		247	274
	G00546GRLS5T400B		495	546	G00586GRLS8T480B		644	586

POWER RANGE / GLP

Engine	Model	Pn (KVA) 50Hz			Model	Pn (KVA) 60Hz		
		COP	PRP	STP		COP	PRP	STP
PSI	G0033PSLS5T400P	--	29	33	G0038PSLS8T480P	--	35	38
	G0045PSLS5T400P	--	40	45	G0054PSLS8T480P	--	48	54
	G0075PSLS5T400P	--	67	75	G0080PSLS8T480P	--	75	80
	G00110PSLS5T400P	--	100	110	G00138PSLS8T480P	--	118	138
	G00121PSLS5T400P	--	109	121	G00138PSLS8T480P	--	125	138
	G00149PSLS5T400P	--	134	149	G00170PSLS8T480P	--	144	170
	G00186PSLS5T400P	--	167	186	G00253PSLS8T480P	--	215	253
	G00298PSLS5T400P	--	268	298	G00345PSLS8T480P	--	311	345
TEDOM	G0093PSLS5T400P	93	--	93	--	--	--	--
	G00150PSLS5T400P	150	--	150	--	--	--	--
	G00159PSLS5T400P	159	--	159	--	--	--	--
	G00176PSLS5T400P	176	--	176	--	--	--	--
GRUPEL	G0034GRLS5T400P	--	30	34	G0037GRLS8T480P	--	34	37
	G0058GRLS5T400P	--	53	58	G0057GRLS8T480P	--	51	57
	G0062GRLS5T400P	--	62	62	G0066GRLS8T480P	--	61	66
	G0086GRLS5T400P	--	77	86	G00101GRLS8T480P	--	91	101
	G00106GRLS5T400P	--	100	106	G00114GRLS8T480P	--	104	114
	G00140GRLS5T400P	--	128	140	--	--	--	--
	G00176GRLS5T400P	--	160	176	G00176GRLS8T480P	--	160	176
	G00178GRLS5T400P	--	178	178	G00188GRLS8T480P	--	180	188
	G00207GRLS5T400P	--	191	207	--	--	--	--
	G00209GRLS5T400P	--	200	209	--	--	--	--
	G00253GRLS5T400P	--	230	253	G00241GRLS8T480P	--	218	241
	G00254GRLS5T400P	--	240	254	G00274GRLS8T480P	--	247	274
	G00546GRLS5T400P	--	495	546	G00586GRLS8T480P	--	644	586

(1) Rated power at nominal voltage, power factor = 0,8 and nominal frequency

(2) Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%

(3) The information in this document is substantially correct at the time of printing and may be altered subsequently.

(4) Other power range or Project specific data available on request

ABOUT US

Grupel began its activity in **1976** where its main activity is the production and commercialization of a wide range of generators (open chassis or soundproof - canopy) equipped with best quality components and with a power range between **3 to 3500kVA**, dedicated to produce energy. Nowadays it has become the largest production unit of Gensets in Portugal, operating in the **5 continents with over 60 countries**. **Grupel** means **flexibility**, as it's perfectly empowered to produce since the standard genset to special projects, that involves a high complexity level of engineering and conception.

In the last years, the growth has been over **25% per year**, which reflects the quality of the generators and the trust of the customers.



87% of the company's business volume is currently due to its international presence.



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