

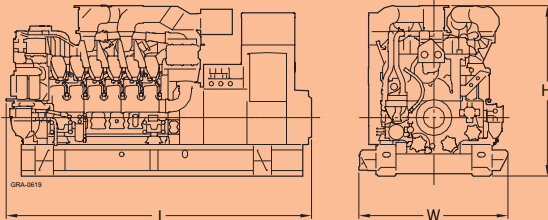
# MTU Customized Diesel Gensets 50 Hz

## 1600 – 2000 kVA

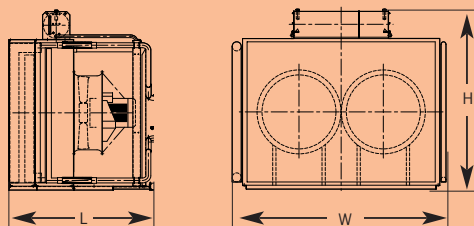
### 400 / 230 V



#### Genset



#### Radiator



#### Dimensions and Mass

		Genset	Radiator
Length (L)	mm	3845	2270
Width (W)	mm	1885	2640
Height (H)	mm	2155	2690
Mass	kg	10761	

#### Rating Definitions

All ratings are standard service power according to ISO 3046

Ambient air temperature:	40 °C
Charge-air coolant temp.:	55 °C
Height above sea level:	400 m

#### Standby

- > Standby with variable load
- > Load factor <85%
- > Max. 500 operating hours per year
- > Power (ICFN): fuel stop

#### Prime Power

- > Continuous operation with variable load
- > Load factor <75%
- > Unrestricted operating hours per year
- > Power (ICXN): 10% overload capability

#### Emissions\*

for emission optimized versions

No <sub>x</sub>	mg/Nm <sup>3</sup>	2000
CO	mg/Nm <sup>3</sup>	650
HC	mg/Nm <sup>3</sup>	150
Dust	mg/Nm <sup>3</sup>	130

\* 5% O<sub>2</sub>

#### Note:

This drawing is provided for reference only and should not be used for planning installation. Please contact your local distributor for more detailed information.



# Technical Data

		Standby Fuel Optimized		Prime Fuel Optimized		Prime Emission Optimized	
Nominal Rating	kVA	1800	2000	1600	1800	1600	1800
Active power	kWe	1440	1600	1280	1440	1280	1440
Genset Type		MTU1800	MTU2000	MTU1600P	MTU1800P	MTU1600P	MTU1800P
Engine Type		12V4000G23	12V4000G63	12V4000G23	12V4000G63	12V4000G23	12V4000G63
Alternator Type		743RSL4052	744RSL4054	743RSL4052	744RSL4054	743RSL4052	744RSL4054
<b>Fuel Consumption *</b>							
100 % load	l/h	303	363	275	327	275	327
75 % load	l/h	227	276	206	276	206	276
50 % load	l/h	154	193	140	173	140	173
<b>Electrical Radiator</b>							
Max. air temp. on fan	Deg C	50	50	50	50	40	40
Ambient temperature	Deg C	43	43	43	43	33	33
Fan air flow without restriction	m <sup>3</sup> /s	29.2	29.2	29.2	29.2	29.2	29.2
Air flow restriction	Pascal	155	180	155	180	274	255
<b>Heat Rejection Engine</b>							
Radiation and convection heat engine							
	kW	90	90	90	90	90	90
Heat dissipated by return flow fuel							
	kW	14	14	14	14	14	14
Engine circuit:							
- Heat dissipation engine	kW	650	790	600	720	600	720
- Coolant flow rate	m <sup>3</sup> /h	62	62	62	62	62	62
- Coolant temperature	Deg C	95	95	95	95	95	95
- Pressure loss	bar	0.7	0.7	0.7	0.7	0.7	0.7
Charge air circuit:							
- Heat dissipation charge air	kW	330	390	280	330	380	440
- Coolant flow rate	m <sup>3</sup> /h	19	19	19	19	19	19
- Temp. before intercooler	Deg C	55	55	55	55	55	55
- Pressure loss	bar	0.7	0.7	0.7	0.7	0.7	0.7
<b>Air Intake</b>							
Intake air depression	mbar	30	30	30	30	30	30
Intake air flow	m <sup>3</sup> /s	2	2.2	1.9	2	2.2	2.3
<b>Exhaust System</b>							
Exhaust gas flow	m <sup>3</sup> /s	5.2	5.7	4.9	5.2	5.7	5.8
Exhaust gas temperature	Deg C	480	490	480	480	485	490
Exhaust back pressure	mbar	30	30	30	30	30	30
<b>Alternator</b>							
Temperature rise	Deg C	125	125	125	125	125	125
<b>Lube System</b>							
Engine oil capacity	l	160	160	160	160	160	160

All ratings include power requirement for mechanical driven cooling fan

\* + 5%; EN 590 (42.8 MJ / kg), fuel density 0,86 g/ml

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