



Engine Yanmar 4TNV88

| | |
|------------------------------|------------------|
| Type | Diesel, 4 Stroke |
| Cooling system | Water cooled |
| Cylinders | 4 |
| Displacement (c.c. - cu.in) | 2190 - 133,5 |
| Engine output (hp) | 24,5 |
| RPM | 1500 |
| Injection system | Direct |
| Governor | Mechanical |
| Lubrication system | Forced |
| Oil sump capacity (L - gal) | 7,4 - 1,9 |
| Stop system | Solenoid |
| Fuel tank capacity (L - gal) | 40 - 10,5 |
| Autonomy 3/4 load (h) | 16 |
| Starter battery (Ah-V) | 80 -12 |
| Battery charger (Ah-V) | 15 -12 |
| Starter motor (kW-V) | 1,4 / 12 |

Generator

| | |
|----------------------------|-----------------------------------|
| Type | Synchronous, 4 poles, selfexcited |
| Regulation | Compound |
| Voltage (V) | 400 / 230 |
| Frequency (Hz) | 50 |
| 3-Phase data | |
| Voltage (V) | 400 |
| Max. output (kVA) | 22 |
| Cont.output (kVA) | 20 |
| Power factor (cos ϕ) | 0,8 |
| Single-Phase data | |
| Voltage (V) | 230 |
| Max. output (kVA) | 5,3 |
| Power factor (cos ϕ) | 1 |
| Insulation class | H |
| Voltage stability | $\pm 10\%$ |
| Frequency stability | $\pm 5\%$ |

Soundproof cabin

- With frame and openable hoods made of steel panels and epoxidic paint.

Engine

- Easy access in case of maintenance to the feeding system, lubrication system and air filter.
- Safety stop in case of low oil pressure.
- Safety stop in case of high water temperature.
- Oil and fuel filters are easily accessible and easily replaceable.
- Water cooled engine with radiator.

Control panel

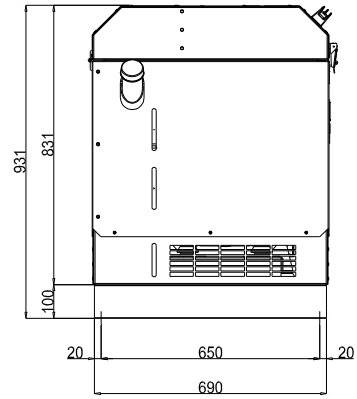
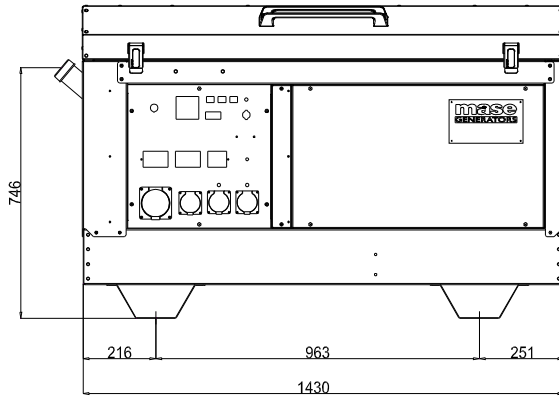
- The **mase** control panel for manual starting and stopping has been designed and built to combine all the control instruments and warning lights and protections both for the engine and the generator.
- Control panel is made of painted steel plate and include the following main equipment:
 - Voltmeter • 4-pole circuit breaker and earth fault device • 3-pole magnetothermal switch 16A • 1-pole magnetothermal switch • Electronic device for automatic shutdown of the engine in case of HWT and LOP • Emergency stop pushbutton • Ignition key • Warning light for high cooling water temperature and low oil pressure • Hourmeter • Socket 32A 400V 3P+N+G • Socket 16A 400V 3P+G N°2 Socket 2P+G 230V 16A

Generator

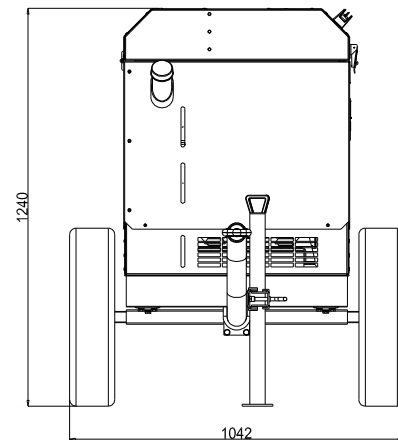
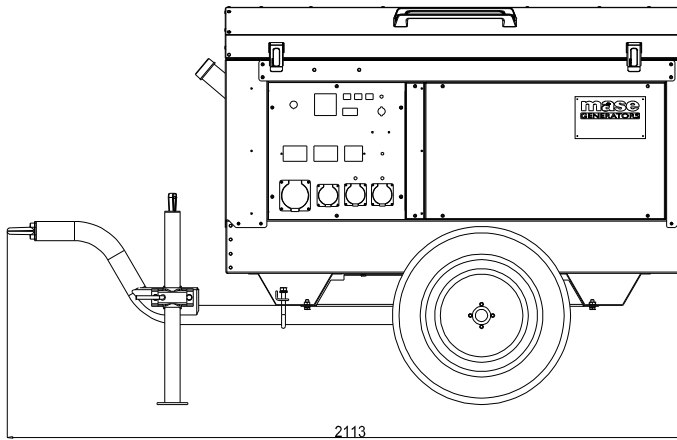
- Synchronous, 4 poles, self-excited
- Rotor and stator epoxidic resin coated against enviromental agents.
- Rotor dynamically balanced.
- Insulation class H.

MPF 22

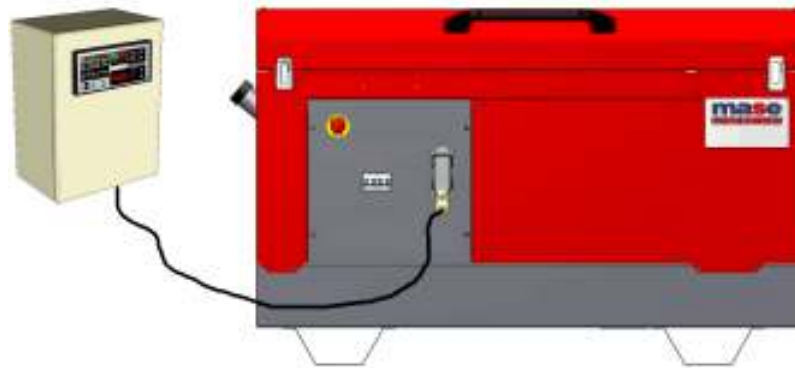
STANDARD version (BA)



FIXED TOW version (TF)



Automatic control panel and transfer switch version



| | MPF 22 BA | MPF 22 TF | |
|---------------------------------|-------------|-------------|----------|
| Lenght | 1430 - 56,3 | 2113 - 83,2 | mm - in |
| Width | 690 - 27 | 1042 - 41 | mm - in |
| Heigh | 931 - 36,5 | 1240 - 48,8 | mm - in |
| Weight | 480 - 1058 | 510 - 1124 | kg - lbs |
| Noise power level 96 LwA | | | |

Dealer:

OPTIONALS: SITE TOW VERSION

This drawing is only a reference and is not indicatly for the installation.
For more information, you may contact your local dealer or **mase** generators S.p.A.

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