

# MP-22P

## General Features

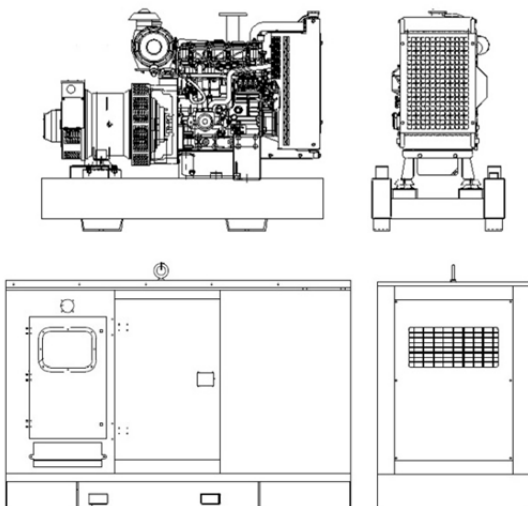
- Engine (PERKINS 404A-22G1), Radiator 50°C max, belt driven fans, with safety guard
- 24V charge alternator
- Alternator (Stamford, Leroy Somer & Mecc Alte for option), single bearing alternator IP23, insulation class H/H
- Skid and vibration isolators
- Dry type air filter, fuel filter, oil filter
- Main line circuit breaker
- Standard control panel
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, industrial muffler

PHOTO FOR REFERENCE ONLY



## Technical Data

|                            |            |
|----------------------------|------------|
| Output Frequency           | 50 Hz      |
| Rated Speed                | 1500RPM    |
| Prime Power                | 20KVA/16KW |
| Standby Power              | 22KVA/17KW |
| Rated Voltage              | 400/230V   |
| Phase                      | 3          |
| Power Factor               | 0.8        |
| Fuel Consumption 100% Load | 5.4L/Hr    |
| Fuel Consumption 75% Load  | 4.0L/Hr    |
| Fuel Consumption 50% Load  | 2.9L/Hr    |
| Operation Altitude         | ≤1000m     |
| Ambient Temperature        | ≤50°C      |



## Dimension and Weight

| Genset Type       | Open Frame | Soundproof |
|-------------------|------------|------------|
| Length(L) (mm)    | 1380       | 1900       |
| Width(W) (mm)     | 650        | 910        |
| Height(H) (mm)    | 1200       | 1450       |
| Gross Weight (kg) | 450        | 1070       |

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**MP-22P**

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**Engine Specification**

|                                  |                            |
|----------------------------------|----------------------------|
| Manufacturer / Model:            | PERKINS 404A-22G1, 4-cycle |
| Air Intake System:               | Natural                    |
| Fuel System:                     | Direct                     |
| Cylinder Arrangement:            | 4 in line                  |
| Displacement:                    | 2.216L                     |
| Bore and Stroke:                 | 84*100 (mm)                |
| Compression Ratio:               | 23.3:1                     |
| Rated RPM:                       | 1500rpm                    |
| Max. Standby Power at Rated RPM: | 20.6KW                     |
| Governor Type:                   | Mechanical                 |
| Exhaust Gas Flow:                | 3.94m <sup>3</sup> /min    |
| Exhaust Temperature:             | 505°C                      |
| Max Back Pressure:               | 10.2kPa                    |
| Max Intake Restriction:          | 6.4kPa                     |
| Combustion air flow:             | 1.45m <sup>3</sup> /min    |
| Cooling fan air flow:            | 40.2m <sup>3</sup> /min    |
| Total Oil Capacity:              | 10.6L                      |
| Oil Consumption:                 | TBA                        |
| Total Coolant Capacity:          | 7L                         |
| Thermostat:                      | 82-95°C                    |
| Max Water Temperature:           | 112°C                      |

**Alternator Specification**

|                                     |  |
|-------------------------------------|--|
| Manufacturer / Model:               | STAMFORD S0L2-G1                         |
| Number of Phase:                    | 3  |
| Connecting Type:                    | 3 Phase and 4 Wires, "Y" type connecting |
| Number of Bearing:                  | 1  |
| Protection Grade:                   | IP23                                     |
| Exciter Type:                       | Brushless, self-exciting                 |
| Insulation Class, Temperature Rise: | H/H                                      |
| TIF:                                | < 50                                     |
| THF:                                | < 2%                                     |
| Voltage Regulation, Steady State:   | ≤ ± 1%                                   |
| Alternator Capacity:                | 20KVA                                    |
| Alternator Efficiencies:            | 85.3%                                    |
| Air Cooling Flow:                   | 0.105m <sup>3</sup> /s                   |

# MP-22P

## Control System

### Standard Deepsea DSE6020 Auto Mains Failure Control Panel

- Manual or Auto Start Module for single genset applications. Designed to work with electronic and non-electronic engines, providing advanced engine monitoring and protection features.
- Includes a back-lit LCD display which shows the status of the engine at all times. Monitors engine speed, frequency, voltage and run hours and also displays the warning and shutdown status.
- Includes extensive outputs and inputs making this product ideal for a wide variety of applications. It can either be programmed using the front panel or by using DSEPC software.



### Optional Deepsea DSE7320 Auto Mains Failure Control Panel

- Auto Mains (Utility) Failure Control Module suitable for a wide variety of single genset applications.
- Displays warnings, shutdown and engine status info on the back-lit LCD screen, illuminated LEDs, remote PC. Monitors the mains (utility) supply. Includes USB, RS232 and RS485 ports for system expansion.
- Compatible with electronic and non-electronic engines and offers flexible inputs, outputs and engine protections to meet extensive industry requirements.
- Includes enhanced event and performance monitoring, remote communication to reduce engine wear. It can either be programmed using the front panel or by using DSEPC software.



### Optional Deepsea DSE8610 Auto Paralleling Control Panel

- Synchronizing Auto Start Control Module for multi-genset loadshare system, designed to synchronize up to 32 gensets including electronic and non-electronic engines.
- Monitors the genset and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.
- System alarms are annunciated on the LCD screen, illuminated LED and audible sounder.
- Records 250 events log for maintenance. Extensive monitoring, metering and protection features are included as well as comprehensive communication and system expansion options.
- Using DSE PC Software allows alteration of the operational sequences, timers, alarms with all communication ports active.



**MP-22P****Options****Engine**

- Water Jacket Preheater
- Water Separator
- Oil Pump
- Oil Preheater
- Battery Charger

**Fuel System**

- Daily Fuel Tank
- External Fuel Tank
- Auto Fuel Filling System
- Fuel Level Sensor

**Control System**

- Auto Remote Control Panel
- AMF Function Control Panel
- Auto Paralleling Control Panel
- Auto Transfer Switch (ATS)
- ABB breaker

**Alternator**

- Anti Condensation Heater
- Permanent Magnet Generator
- Winding Temp Sensor

**Enclosure**

- Rainproof Type
- Soundproof Rental Type
- Mobile Type

**Available Voltages**

- 440/254V
- 415/240V
- 380/220V

**Reference Standards**

**Generator Set:** ISO 8528, CE

**Engine:** ISO 3046, BS 5514, DIN 6271

**Alternator:** BS EN 60034, IEC34, BS5000, NEMA MG1-32, VDE 0530, CSA C22.2-100, AS1359

**Warranty**

Mega Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: A. 15 months, counted on the day Mega sold to the first buyer; B. One year after installation; C. 1000 running hours (accumulated); subject to the earlier one.

Service and spare parts are available from Mega Power or distributors in your location.