

| Engine Specifications | | |
|-------------------------------|------------|---------------|
| Brand | | PERKINS |
| Model | | 1103A-33TG2 |
| Engine Power Stand BY | (kWm / hp) | 60,5/81,1 |
| Revolution Per Minute | (r.p.m.) | 1500 |
| Total Displacement | (L) | 3.3 |
| Cylinders Orientation | | 3 SINGLE LINE |
| Bore x Stroke | (mm x mm) | 105 x 127 |
| Compression Orientation | | 17,25:1 |
| Governor Type | | MECHANIC |
| Aspiration System | | TURBO CHARGE |
| Injection | | DIRECT |
| Cooling | | WATER COOLED |
| Electrical System | (VDC) | 12 |
| Lub-Oil Capacity | (L) | 7.9 |
| Engine Coolant Capacity | (L) | 10.2 |
| Fuel Tank Capacity | (L) | 176 |
| Maximum Exhaust Temperature | (°C) | 557 |
| Maximum Exhaust Gas Flow | (m3/h) | 10.1 |
| Maximum Allowed Back Pressure | (kPa) | 10 |
| Cooling Air Flow | (m3/min) | 89 |
| Fuel Consumption 50 % | (L/h) | 7.2 |
| Fuel Consumption 75 % | (L/h) | 10.4 |
| Fuel Consumption 100 % | (L/h) | 13.9 |

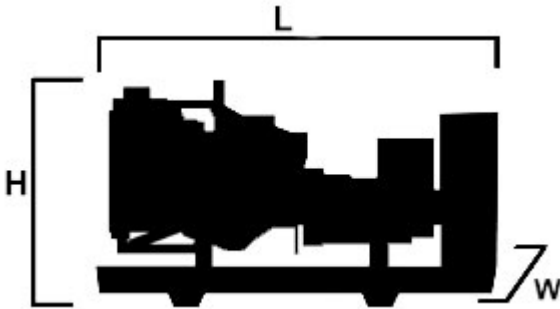
- Replacable cylinder jacket
- Dry type replacable oil filter
- Heat-resistant radiator for 50 °C

| Alternator Specifications | | |
|--------------------------------|-----------|------------------|
| Output Voltage | (V) | 400/230 |
| Frequency | (Hz) | 50 |
| Stationary Voltage Regulation | (±) | 1 % |
| Short Circuit Current | | > 300 % |
| Insulation | | H |
| Protection | | IP 23 |
| Efficiency | (%) | 90,2 |
| Overloading | | 110 % FOR 1 HOUR |
| Power Factor | (cos Phi) | 0.8 |
| Total Harmonic Distortion Rate | | THF < 2 % |
| Connection Type | | STAR |
| Number Of Pole | | 4 |
| Number Of Bearing | | SINGLE |

- 4 Poles, Self-Excitation and Self-Cooled, Brushless, Synchronotype alternator
- Electronic type automatic voltage regulator (AVR)

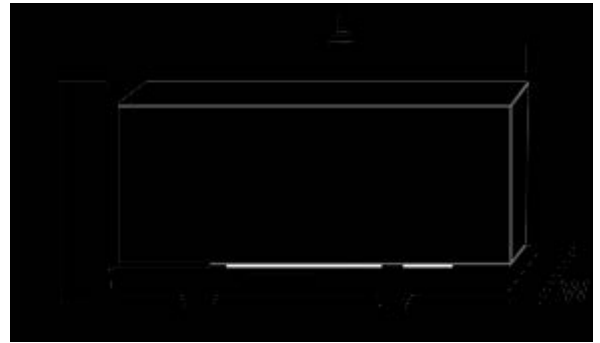
Dimensions Without Canopy

| Dimensions and Weight | | |
|-----------------------|----|------|
| Length (L) | mm | 2000 |
| Height (H) | mm | 1700 |
| Width (W) | mm | 1000 |
| Wet weight | kg | 930 |
| Fuel Tank Capacity | L | 176 |



Dimensions With Canopy

| Dimensions and Weight | | |
|-----------------------|----|------|
| Length (L) | mm | 2400 |
| Height (H) | mm | 1800 |
| Width (W) | mm | 1000 |
| Wet weight | kg | 1160 |
| Fuel Tank Capacity | L | 176 |



Control Panel Features

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable language
- Waveform display of V & I
- Harmonic analysis of V & I
- Synchroscope & check synch
- Allows closed transfers
- 16Amp MCB & GCB outputs
- 8 configurable digital outputs
- Outputs expandable to 40
- 4 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple nominal conditions
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge0 run enabled
- Combat mode support
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem & Ethernet diagnostics
- Configurable through USB, RS-485, Ethernet and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (USB & RS232)
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with standard gasket