



Engine Specifications		
Brand		PERKINS
Model		1103A-33G
Engine Power Stand BY	(kWm / hp)	30,0/40,0
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		19,25:1
Governor Type		MECHANIC
Aspiration System		NATURAL
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)	71
Maximum Exhaust Temperature	(°C)	500
Maximum Exhaust Gas Flow	(m3/h)	5.7
Maximum Allowed Back Pressure	(kPa)	8
Cooling Air Flow	(m3/min)	53
Fuel Consumption 50 %	(L/h)	4
Fuel Consumption 75 %	(L/h)	5.6
Fuel Consumption 100 %	(L/h)	7.2

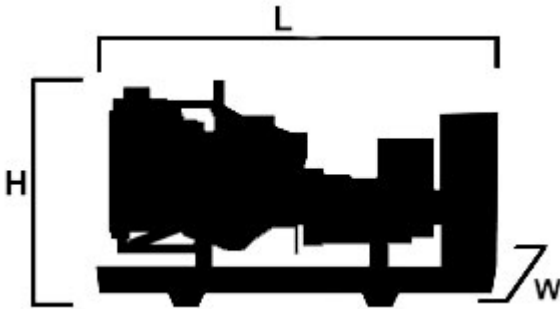
- Replacable cylinder jacket
- Dry type replacable oil filter
- Heat-resistant radiator for 50 °C

Alternator Specifications		
Output Voltage	(V)	400/230
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1 %
Short Circuit Current		> 300 %
Insulation		H
Protection		IP 23
Efficiency	(%)	88,1
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)

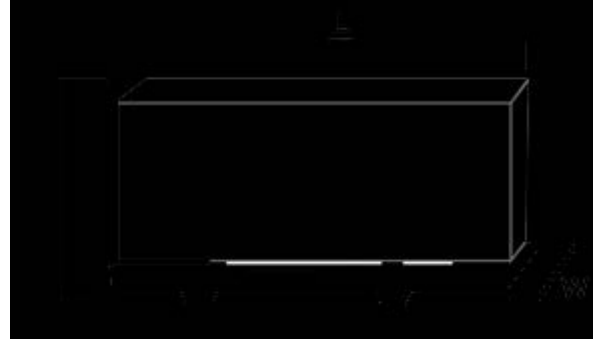
### Dimensions Without Canopy

Dimensions and Weight		
Length ( L )	mm	1650
Height ( H )	mm	1500
Width ( W )	mm	950
Wet weight	kg	685
Fuel Tank Capacity	L	71



### Dimensions With Canopy

Dimensions and Weight		
Length ( L )	mm	2100
Height ( H )	mm	1600
Width ( W )	mm	950
Wet weight	kg	950
Fuel Tank Capacity	L	71



### 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