

Generating Rates		Prime	Standby
Power	kVA	60	66
Power	kW	48	53
Current	(cos Phi=0,8) A	87	95
Standard Voltage	V	400/231	400/231
Revolution Per Minute	r.p.m	1500	1500
Rated At Power Factor	Cos Phi	0,8	0,8

### Standard Features

- ✓ 4 stroke 1500RPM, water cooled heavy duty diesel engine
- ✓ Dry type replacable air filter
- ✓ Heat-resistant radiator for 50 °C
- ✓ Flexible oil pipes and oil draining valve
- ✓ Pre-heater 4 poles synchrontype, single bearing, brushless alternator
- ✓ Batteries and cables
- ✓ Electrostatic paint coated, steel, welded chassis
- ✓ Fuel tank housed in the chassis Industrial type silencer
- ✓ Electronic battery charger
- ✓ Electrical wiring diagram
- ✓ User manual and operating manual
- ✓ Protection system on manual run
- ✓ Lubrication oil and anti – freeze

### Optional Equipments

- ✓ Soundproof canopy
- ✓ Automatic transfer switch
- ✓ Circuit Breaker
- ✓ Trailer
- ✓ External fuel tank
- ✓ Electronic governor
- ✓ Heating system for fuel tank
- ✓ Oil heater
- ✓ Fuel filling system (Automatic / Manual)
- ✓ Analog indicators
- ✓ 1 Phase - 3 phase switch plugs
- ✓ Alarm system for fuel level
- ✓ Remote control and monitoring

**Prime Power :** Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility power failure according to ISO8528-1. 10% over load capability is available.

**Stand By Power :** Supplying of electrical power at variable load, in the event of normal utility power failure according to ISO8528-1. This rating is maximum power, no overload capability is available.

## Engine Specifications

Brand		PERKINS
Model		1103A-33TG2
Engine Power	(kWm / hp)	59,3/80,6
Revolution Per Min	(r.p.m)	1500
Total Displacement	(L)	3,3
Cylinders Orientation		3 Vertical In-line
Broke x Stroke	(mm x mm)	105 x 127
Compression Orientation		17,25:1
Governor Type		Mechanic
Aspiration System		Turbo
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)	181
Maximum Exhaust Temperature	(°C)	571
Maximum Exhaust Gas Flow	(m3/h)	10,4
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 air filter
- Heat-resistant radiator for 50 °C

## Alternator Specifications

Standard Voltage	(V)	400/231
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1
Short Circuit Current		300
Insulation		H
Protection		IP 23
Efficiency	(%)	89,9
Overloading		1 Hour - %110
Rated At Power Factor	(cos Phi)	0,8
Total Harmonic Distortion Rate		2
Connection Style		Star
Number of Pole		4
Number of Bearing		Single

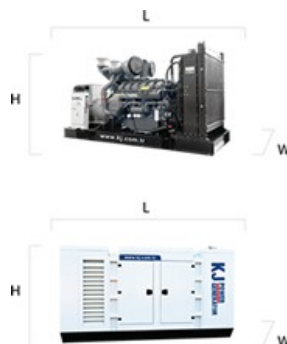
- Self-cooled
- Electronic type automatic voltage regulator (AVR)
- 4 poles, self-excitation, brushless, synchrontype alternator

## Dimensions Without Canopy and Weight

WIDTH x LENGTH x HEIGHT	mm	1000x2000x1700
Wet Weight	kg	855

## Dimensions With Canopy and Weight

WIDTH x LENGTH x HEIGHT	mm	1000x2400x1800
Wet Weight	kg	1135



## Control Panel Features

- ✓ Diesel and gas genset support
- ✓ 400Hz operation support
- ✓ 400 event logs full snapshot
- ✓ Multiple Automatic test program
- ✓ 3 level configuration password
- ✓ 128x64 graphical LCD display
- ✓ Downloadable language
- ✓ Waveform display of V&I
- ✓ Harmonic analysis of V&I
- ✓ Synchroscope & check synch
- ✓ 16 Amp MCB & GCB outputs
- ✓ 8 configurable digital outputs
- ✓ Outputs expandable to 40
- ✓ 4 configurable analog outputs
- ✓ Battery charge run enabled
- ✓ Weekly Operation Schedule
- ✓ Dual mutual standby with equal aging of gensets
- ✓ Manual speed fine adjust some ECU's
- ✓ Automatic fuel pumpcontrol
- ✓ Disable protection feature
- ✓ Excess protection power
- ✓ Reverse power protection
- ✓ Overload IDMT protection
- ✓ Load shedding, dummy load
- ✓ Multiple load management
- ✓ Waveform display of V&I
- ✓ Battery back-up real time clock
- ✓ Idle speed control
- ✓ All parameters front panel editable
- ✓ Multiple nominal conditions
- ✓ Contactor & MCB drive
- ✓ 4 quadrant genset power counters
- ✓ Mains power counters
- ✓ Fuel filling counter
- ✓ Fuel consumption counter
- ✓ Free configuration software
- ✓ Allow SMS controls
- ✓ Mobile genset support
- ✓ Automatic GSM geo-location
- ✓ GPS connectivity (USB & RS232)
- ✓ Modem & ethernet diagnostic
- ✓ Configurable through USB, RS-485, Ethernet and GPRS
- ✓ Ready for central monitoring Ethernet and GPRS