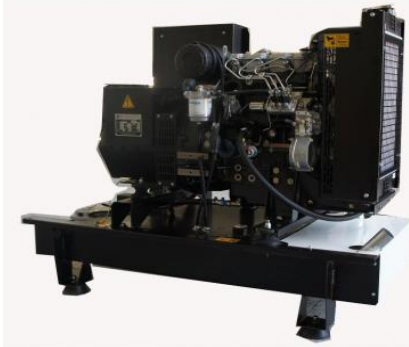


Standby Power (ESP)

Standby power is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 500 hours of operation per year under average of 70% load. Overloading is not permissible

Prime Power (PRP)

Prime power is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12



Technical information and values are according to ISO8528, ISO3046, NEMA MG1.22, IEC 600341, BS 49995000, VDE 0530 standards. Producing with ISO9001, CE standards.

All information given in this leaflet is intended for general purposes only. Due to a policy continuous improvement REAL reserves the right to amend details and specifications without notice and all information given is subject to the REAL's current condition of sales.

Power Output Ratings 50 Hz. / 400 V

Standby Power (ESP)	kVA	66
	kW	52,8
Prime Power (PRP)	kVA	60
	kW	48

Engine

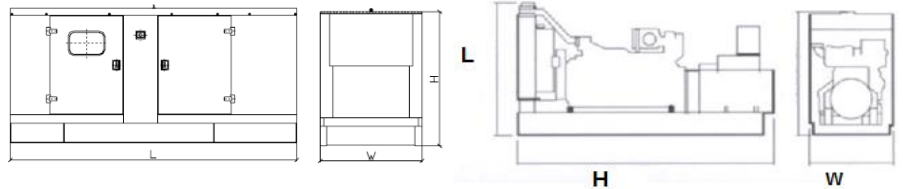
Manufacturer		PERKINS
Model		1103A-33TG2
No of Cylinder / Configuration		3 IN-LINE
Displacement lt	lt	3,3
Bore / Stroke	mm	105x127
Compression Ratio		17,25:1
Aspiration		NATURAL
Governor Type		MECHANICAL
Cooling System		WATER
Coolant Capacity	lt	10,2
Lubrication Oil Capacity	lt	8,3
Electrical System	VDC	12
Speed / Frequency	rpm	1500 rpm / 50 Hz
Engine Prime Power (with fan)	kWm	59,3
Fuel Consumption at full load	lt/h	13,9
Radiator Cooling Air	°C	89
Air Intake - Engine	m³/min	3,8
Exhaust Gas Flow	m³/min	10,1

Alternator

Manufacturer		STAMFORD
Model		UCI224E
Power Factor		0,8
No of Bearing		SINGLE
No of Poles		4
No of Leads		12
Voltage Regulation (Steady State)		± %0,5
Insulation		H
Degree of Protection		IP23
Excitation System		AVR, BRUSHLESS
Connection Type		STAR
Total Harmonic Content (No Load)		< %2
Frequency	Hz	50
Voltage Output	VAC	231/400

DIMENSION

	L x W x H (mm)	Weight (kg)	Fuel Tank (lt)
Canopied	2270x970x1275	1337	150
Open Skid	1730x900x1188	1013	150



DESIGN SPECIFICATIONS

High quality, reliable and complete power unit, Compact design, Easy start and maintenance possibility, Every generating set is subjected to a comprehensive test programme which includes full load testing and checking and providing of all control and safety shut down functions testing, Full engineered with a wide range of options and accessories: Canopy, soundproof and on road trailer

STANDARD GENSET SPECIFICATIONS

ENGINE

PERKINS heavy duty diesel engine, Four stroke, water cooled, turbo charged, Electronic Governor Control System, Direct injection fuel, 24 V D.C. starter and charge alternator, Replaceable fuel filter, oil filter and dry element air filter, Cooling radiator and fan, Starter battery (with lead acid) including Rack and Cables, Flexible fuel connection hoses and manual oil sump drain pump, Industrial capacity exhaust silencer and steel bellows, Jacket water heater (at automatic models), Operation manuals and circuit diagram documents

ALTERNATOR

Brushless, single bearing system, 4 poles, Insulation class H, Standard degree of protection IP21, Self-exciting and self-regulating, Stator winding with 2/3 pitch, Impregnation with tropicalised epoxy varnish, close Voltage Regulation

BASE FRAME

The complete genset is mounted as whole on a heavy-duty fabricated, steel base frame. Antivibration pads are fixed between the engine/ alternator feet and the base frame. Base frame design incorporates an integral fuel tank. The generating set can be lifted or carefully pushed / pulled by the base frame, forklift pockets within base frame. Daily type fuel gauge and drain plug on the fuel tank.

CANOPY

All canopy parts are designed with modular principles. Without welding assembly. Panel window. Lockable doors on each side, modular canopy can also be installed at a later date. All metal canopy parts are painted by electrostatic polyester powder paint. Exhaust silencer is protected against environmental influences. Thermally insulated engine exhaust system. Emergency stop push button is installed outside of canopy. To enable for lifting easy maintenance and operation.

CONTROL SYSTEM

Panel Equipments;

Control, supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

1-Auto. Mains Failure Control Panel

Control Panel Equipments:
Control panel with TPH 309 module
Static battery charger
Emergency stop push button

1.1 Generating Set control module TPH 309 features:

The module is used to monitor a mains supply and automatic start a stand-by generating set.
Scrolling digital LCD display
Front panel configuration of timers and alarm trip points
Easy push button control
OFF/MANUAL/AUTO/TEST/START
Operation indicators accessed by the LCD display scroll push button.
LCD display scroll push button

Metering via LCD Display:

Generator Volts (L/N)
Generator Amps (L1-L2-L3)
Generator Frequency (Hz)
Engine hours run
Engine oil pressure (PSI&Bar)
Engine speed RPM
Engine temperature (C & F)
Mains Volts (L-L/L-N)
Plant battery volts



Automatic shutdown on fault conditions

Over Speed
High Engine Temperature
Low Oil Pressure
Under/over generator frequency
under/over mains voltage
Fail to start
Charge fail
Over current
emergency stop
Low battery voltage

LED indications

Mains available
Generator available
Mains on load
Generator on Load

2. Power Outlet Terminal Board Mounted on the Genset Baseframe