PERKINS
RP710

1500 d/dak.50 Hz.

231/400 VAC

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 ofdelivering in theevent of a utility power outage orunder test conditions for up to 500 hours of operation per year under average of 70% load.Overloading is not permissible

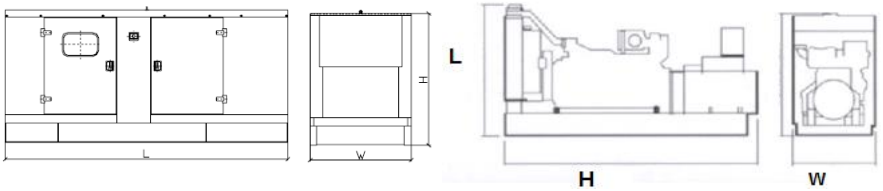
Prime Power (PRP)
Prime power is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hours.

Power Output Ratings		50 Hz. / 400 V
Standby Power (ESP)	kVA	710
	kW	572
Prime Power (PRP)	kVA	650
	kW	520

Engine		
Manufacturer		PERKINS
Model		2806A-E18TAG2
No of Cylinder / Configuration		6 IN-LINE
Displacement lt	lt	18,13
Bore / Stroke	mm	145x183
Compression Ratio		14.5:1
Aspiration		Turbocharged&Inter Cooled
Governor Type		ECM
Cooling System		WATER
Coolant Capacity	lt	61
Lubrication Oil Capacity	lt	55,5
Electrical System	VDC	24
Speed / Frequency	rpm	1500 rpm / 50 Hz
Engine Prime Power (with fan)	kWm	602
Fuel Consumption at full load	lt/h	125
Radiator Cooling Air	°C	702
Air Intake - Engine	m³/min	42
Exhaust Gas Flow	m³/min	109

Alternator		
Manufacturer		STAMFORD
Model		HCI544F
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	5000x1652x2475	5750	890
Open Skid	3400x1536x2161	4750	890



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 TPH reserves the right to amend details and specifications without notice and all information given is subject to the TPH's current condition of sales.

CE TSE ISO 9001:2000

PERKINS
RP710

1500 d/dak.50 Hz.

231/400 VAC

DESIGN SPECIFICATIONS

High quality, reliable and complate 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 an each side, modular canopy can also installed at a later date All metal canopy parts are painted by electrostatic polyester powder paint Exhaust silencer is protected against environment influences Thermally insulated engine exhaust system Emergency stop push button is installed outside of canopy To enable for lifting easy mainteneance 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:
Conrtol panel with DSE 6120 module
Static battery charger
Emergency stop push button

1.1 Generating Set control module DSE 6120 features:
The module is used to monitor a mains supply and automatic start a stand-by generating set.
Micro-processor based design
Monitors engine performance and AC power output
LED and LCD alarm indication
Front panel configuration of timers and alarm trip points
provides signal to change over switch panel
event logging of shutdown alarms
Remote communication via RS232 port or RS485 modbus output
easy push button control
STOP/RESET-MANUAL-AUTO-TEST-START
Operation indicators accesed by the LCD display scroll push button.

Metering via LCD Display:

Generator Volts (L-L/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)
Generator kVA
Generator kW
Generator power factor
Mains Frequency (Hz)
Mains Volts (F-F/F-N)
Plant battery volts

Automatic shutdown on fault conditions

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

LED indications

Mains available
Generator available
Mains on load
Generator on Load

2. Power Outlet Terminal Board Mounted on the Genset Baseframe

CE TSE **ISO 9001:2000**