

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 hours.

Power Output Ratings 50 Hz. / 400 V

Standby Power (ESP)	kVA	815
	kW	652
Prime Power (PRP)	kVA	745
	kW	596

Engine

Manufacturer		PERKINS
Model		4006-23TAG2A
No of Cylinder / Configuration		6 IN-LINE
Displacement lt	lt	22,921
Bore / Stroke	mm	160x190
Compression Ratio		13.6:1
Aspiration		Turbocharged & Inter Cooled
Governor Type		ECM
Cooling System		WATER
Coolant Capacity	lt	105
Lubrication Oil Capacity	lt	113,4
Electrical System	VDC	24
Speed / Frequency	rpm	1500 rpm / 50 Hz
Engine Prime Power (with fan)	kWm	685
Fuel Consumption at full load	lt/h	159
Radiator Cooling Air	°C	1200
Air Intake - Engine	m³/min	64
Exhaust Gas Flow	m³/min	180

Alternator

Manufacturer		STAMFORD
Model		HCI634G
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

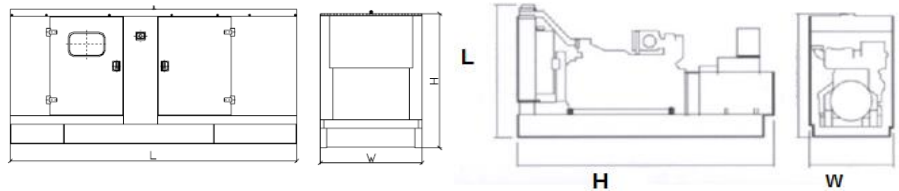
DIMENSION

	L x W x H (mm)	Weight (kg)	Fuel Tank (lt)
Canopied	20 feet CONTAINER	9750	1000
Open Skid	4000x1800x2300	4750	1000



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.



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.

CONTAINER

Welded with square and trapeze sheet steel construction - Lockable doors on each side - Removable roof - Aluminium internal floor - Residential silencer - Sandwich mineral wool attenuation on the roof surface - White paint finishing (RAL 9010)

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 DSE 7120 module
Static battery charger
Emergency stop push button

1.1 Generating Set control module DSE 7120 features:

The modules are operated via the START, STOP, AUTO and MANUAL soft touch membrane buttons on the front panel. The DSE7120 also has a TEST button. Both modules include load switch buttons. The main menu system is accessed using the five navigation buttons to the left of the LCD display. Analogue inputs are provided for oil pressure, coolant temperature and a further flexible input. These connect to conventional engine mounted resistive sensor units to provide accurate monitoring and protection facilities. They can also be configured to interface with digital switch type inputs for low oil pressure and high coolant temperature shutdowns. Six user configurable digital inputs are also included.

Metering via LCD Display:

Generator Volts L1-N, L2-N, L3-N
Generator Volts L1-L2, L2-L3, L3-L1
Generator Amps L1, L2, L3
Generator Frequency Hz
Engine Speed RPM
Engine Oil Pressure
Fuel Level% (optional)
Engine Temperature
Plant Battery Volts
Engine Hours Run
Mains Volts L1-N, L2-N, L3-N
Mains Volts L1-L2, L2-L3, L3-L1
Mains Frequency Hz
Charge Alternator Voltage/Number of engine starts



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

LED indications

Mains available
Generator available
Mains on load
Generator on Load

2. Power Outlet Terminal Board Mounted on the Genset Baseframe