



PERKINS RP50 1500 r.p.m. 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.



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

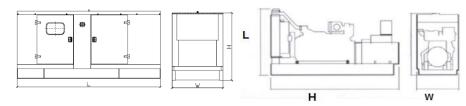
All information given in this leaflet is intended for general purposes only. Due to a policy continuous improvement REAL reserves the right to amend details and specifications without notice and all information given is subject to the REAL's current condition of sales.

Power Output Ratings		50 Hz. / 400 V	
Standby Power (ESP)	kVA	50	
Standby I ower (ESI)	kW	40	
Prime Power (PRP)	kVA	45	
Filline Fower (FIXF)	kW	36	

Engine						
Manufacturer		PERKINS				
Model		1103A-33TG1				
No of Cylinder / Configuration		3 IN-LINE				
Displacement It	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	45,6				
Fuel Consumption at full load	lt/h	10,7				
Radiator Cooling Air	°C	53				
Air Intake - Engine	m³/min	2,9				
Exhaust Gas Flow	m³/min	7				

Alternator						
Manufacturer		MECC ALTE				
Model		ECO32-3S/4				
Power Factor		0,8				
No of Bearing		SINGLE				
No of Poles		4				
No of Leads		12				
Voltage Regulation (Steady State)		± %0,5				
Insulation		Н				
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 (It)					
Canopied	2600x1100x18505	1350	82					
Open Skid	1550x690x1370	1000	82					









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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.

CANODY

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 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 accesed 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

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