



1500 rpm 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

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.

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, sound proof and on road trailer

STANDARD GENSET SPECIFICATIONS

ENGINE

PERKINS heavy duty diesel engine,

Four stroke, water cooled, turbocharged, charge air cooled

Direct injection fuel system,

24 VDC 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 oil sump drain valve,

Industrial capacity exhaust silencer and steel bellows,

Jacket water heater (at all models)

Operation mauals documents

ALTERNATOR

Brushless, single bearing system, 4 poles,

Insulation class H,

Standard degree of protection IP21-IP23,

Self-exciting and self-regulating,

Impregnation with tropicalised epoxy varnish,

Solid state Automatic Voltage Regulator

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,

Lifting eyes allow easy transportation by a crain.

Dial type fuel gauge and drain plug on the fuel tank.

CANOPY

All canopy parts are designed with modular principles.

without welding assembly.

Doors aon each side.

All metal canopy parts are painted by electrostatic.

Exhaust silencer is protected against environment influencespolyester powder

Thermally insulated engine exhaust system.

Emergency stop push button is installed outside of canopy

Easy lifting and moving

Easy mainteneance and operation





OHSAS 18001:2007

ISO 1002:2004

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 DKG 309 module

Static battery charger

Emergency stop push button

Circuit Breaker



DATAKOM

1.1 Generating Set control module DKG 309 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.

a) Metering via LCD Display:

Generator Volts (F-F/F-N) Engine hours run Generator Amps (L1-L2-L3) Engine speed RPM

Engine oil pressure (PSI&Bar) Generator Frequency (Hz) Generator power factor Engine coolant temperature (C & F)

Generator kW Engine Oil temperature

Fuel Level Mains Frequency (Hz) Mains Volts (F-F/F-N) Plant battery volts

b) Automatic shutdown on fault conditions

Under/Over Speed Fail to start High Engine Temperature Fail to stop Low Oil Pressure Charge fail Under/over generator volts Over current Under/over generator frequency Emergency stop

Under/over mains voltage Low/High battery volts

LED indications

Mains available Generator available Mains on load Generator on Load



ISO 14001:2004

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MODEL		NPP 450
Power Output Ratings		50 Hz - 400/231 V
Standby Power (ESP)	kVA	450
	kW	360
Prime Power (PRP)	kVA	405
	kW	324

ENGINE				
Manufacturer		PERKINS		
Model		2206C-E13TAG3		
Engine Stand-by Power	kWm	413		
Speed	rpm	1500 rpm		
No of Cylinder / Configuration		6-In line		
Displacement	lt	12,5		
Bore x Stroke	mm	130x157		
Compression Rate		16.3:1		
Aspiration		Turbo Charged and Air-to-Air Charge Cooled		
Governor Type		Electronics		
Cooling System		Water cooled		
Coolant Capacity	lt	51		
Lubrication Oil Capacity	lt	40		
Electrical System		24V. DC		
	100%	85		
Fuel Consumption lt/h	75%	65		
	50%	46		

ALTERNATOR				
Brand		WATTPOWER		
Model		WPA 450		
Voltage Output	VAC	231/400		
Frequency	Hz	50		
Power Factor	CosØ	0,8		
No of Bearing		1		
No of Poles		4		
No of Leads		12		
Voltage Regulation		Automatic voltage regulation ±%2		
Insulation		Н		
Degree of Protection		IP 21		
Excitation System		Self excitation		

OPEN TYPE				
Diemensions (LxWxH)	mm	4500x1500x1850		
Dry Weight	kg	3800		
SILENT CANOPY TYPE				
Diemensions (LxWxH)	mm	4500x1500X2100		
Dry Weight	kg	4200		