



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 of delivering in theevent 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.

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

CONTROL SYSTEM

Panel Equipments;

ENGINE

WTP DIESEL (RICARDO) 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)

ALTERNATOR

Operation mauals documents

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 paint.

Thermally insulated engine exhaust system.

Emergency stop push button is installed outside of canopy Easy lifting and moving

Easy mainteneance and operation



ISO 9001:2008 ISO 14001:2004 OHSAS 18001:2007 ISO 1002:2004



LED indications Mains available Mains on load

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1-Auto. Mains Failure Control Panel **Control Panel Equipments:** Control panel with DKG 309 module Static battery charger Emergency stop push button **Circuit Breaker**

The control panel is equipped as follows:



DATAKOM

Control, supervision and protection panel is mounted on the genset base frame.

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) Generator Amps (L1-L2-L3) Generator Frequency (Hz) Generator power factor Generator kW Mains Frequency (Hz) Mains Volts (F-F/F-N)

Engine hours run Engine speed RPM Engine oil pressure (PSI&Bar) Engine coolant temperature (C & F) **Engine Oil temperature** Fuel Level 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 Emergency stop Under/over generator frequency Under/over mains voltage Low/High battery volts

> Generator available Generator on Load

MODEL		NPR 37
Power Output Ratings		50 Hz - 400/231 V
Standby Power (ESP)	kVA	37
	kW	30
Prime Power (PRP)	kVA	33
	kW	27

ENGINE		
Manufacturer		WTP DIESEL (RICARDO)
Model		WTPD 37
Engine Stand-by Power	kWm	30,1
Speed	rpm	1500 rpm
No of Cylinder / Configuration		4-In line
Displacement	lt	3,85
Bore x Stroke	mm	100x125
Compression Rate		17:01
Aspiration		Naturally
Governor Type		Mechanical
Cooling System		Water cooled
Coolant Capacity	lt	16
Lubrication Oil Capacity	lt	13
Electrical System		12V. DC
	100%	6,9
Fuel Consumption lt/h	75%	5,5
	50%	3,5

ALTERNATOR				
Brand		WATTPOWER		
Model		WPA 37		
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	2050x900x1100		
Dry Weight	kg	600		
SILENT CANOPY TYPE				
Diemensions (LxWxH)	mm	2050x900X1250		
Dry Weight	kg	800		

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