NPR SERIES | **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 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

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)
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 on 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

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
Generator Frequency (Hz)	Engine oil pressure (PSI&Bar)
Generator power factor	Engine coolant temperature (C & F)
Generator kW	Engine Oil temperature
Mains Frequency (Hz)	Fuel Level
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 9001:2008 **OHSAS 18001:2007**
ISO 14001:2004 **ISO 1002:2004**

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MODEL		NPR 385
Power Output Ratings		50 Hz - 400/231 V
Standby Power (ESP)	kVA	385
	kW	308
Prime Power (PRP)	kVA	346
	kW	277

ENGINE		
Manufacturer		WTP DIESEL (RICARDO)
Model		WTPD 385
Engine Stand-by Power	kWm	308
Speed	rpm	1500 rpm
No of Cylinder / Configuration		6-In line
Displacement	lt	12,9
Bore x Stroke	mm	126x155
Compression Rate		17:01
Aspiration		Turbo Charged Aftercooler
Governor Type		Mechanical
Cooling System		Water cooled
Coolant Capacity	lt	50
Lubrication Oil Capacity	lt	42
Electrical System		24V. DC
Fuel Consumption lt/h	100%	72
	75%	51
	50%	38

ALTERNATOR		
Brand		WATTPOWER
Model		WPA 385
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		H
Degree of Protection		IP 21
Excitation System		Self excitation
Connection Type		

OPEN TYPE		
Diemensions (LxWxH)	mm	3900x1400x1750
Dry Weight	kg	3200
SILENT CANOPY TYPE		
Diemensions (LxWxH)	mm	3900x1400X2000
Dry Weight	kg	3700

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