



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;

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)

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:

## ALTERNATOR

Operation mauals documents

ENGINE

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

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 **High Engine Temperature** Low Oil Pressure Under/over generator volts Under/over generator frequency Under/over mains voltage Low/High battery volts

Generator available Generator on Load

Fail to start

Fail to stop

Charge fail

Over current

Emergency stop

Karaagac Mah. Hadimkoy Istanbul Cad. No:45/A Buyukcekmece/Istanbul-TURKEY Tel: +90 212 858 22 85 Fax: +90 212 858 09 70 www.netpowerjenerator.com

MODEL		NPR 85
Power Output Ratings		50 Hz - 400/231 V
Standby Power (ESP)	kVA	85
	kW	68
Prime Power (PRP)	kVA	76
	kW	61

ENGINE		
Manufacturer		WTP DIESEL (RICARDO)
Model		WTPD 85
Engine Stand-by Power	kWm	66
Speed	rpm	1500 rpm
No of Cylinder / Configuration		4-In line
Displacement	lt	4,33
Bore x Stroke	mm	105x125
Compression Rate		16:01
Aspiration		Turbo Charged
Governor Type		Mechanical
Cooling System		Water cooled
Coolant Capacity	lt	16
Lubrication Oil Capacity	lt	16
Electrical System		24V. DC
	100%	14
Fuel Consumption lt/h	75%	10
	50%	7

ALTERNATOR			
Brand		WATTPOWER	
Model		WPA 85	
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	
Connection Type			

OPEN TYPE				
Diemensions (LxWxH)	mm	2350x900x1150		
Dry Weight	kg	1000		
SILENT CANOPY TYPE				
Diemensions (LxWxH)	mm	2350x900X1300		
Dry Weight	kg	1250		

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