



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

DATAKOM

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 nermissible

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;

generating set.

Micro-processor based design

LED and LCD alarm indication

easy push button control

a) Metering via LCD Display:

Generator Volts (F-F/F-N)

Generator Amps (L1-L2-L3)

Generator Frequency (Hz)

Generator power factor

Mains Frequency (Hz) Mains Volts (F-F/F-N)

High Engine Temperature

Under/over generator volts

Under/over mains voltage Low/High battery volts

Generator kW

ENGINE

CUMMINS 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

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

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

Low Oil Pressure

Engine Oil temperature Fuel Level Plant battery volts Fail to start

Engine oil pressure (PSI&Bar)

Engine coolant temperature (C & F)

Engine hours run

Engine speed RPM

b) Automatic shutdown on fault conditions Under/Over Speed

1.1 Generating Set control module DKG 309 features:

Monitors engine performance and AC power output

provides signal to change over switch panel event logging of shutdown alarms

STOP/RESET-MANUAL-AUTO-TEST-START

Front panel configuration of timers and alarm trip points

Remote communication via RS232 port or RS485 modbus output

Operation indicators accesed by the LCD display scroll push button.

The module is used to monitor a mains supply and automatic start a stand-by

Fail to stop Charge fail Over current Under/over generator frequency Emergency stop

> Generator available Generator on Load

MODEL		NPC 110
Power Output Ratings		50 Hz - 400/231 V
Standby Power (ESP)	kVA	110
	kW	88
Prime Power (PRP)	kVA	100
	kW	80

ENGINE		
Manufacturer		CUMMINS
Model		6BT5.9G2
Engine Stand-by Power	kWm	92
Speed	rpm	1500 rpm
No of Cylinder / Configuration		4-In line
Displacement	lt	5,9
Bore x Stroke	mm	102x120
Compression Rate		17.3:1
Aspiration		Turbo Charged Intercooler
Governor Type		Electronics
Cooling System		Water cooled
Coolant Capacity	lt	33
Lubrication Oil Capacity	lt	16,4
Electrical System		24V. DC
	100%	22
Fuel Consumption lt/h	75%	15
	50%	12

ALTERNATOR				
Brand		WATTPOWER		
Model		WPA 110		
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	2900x1120x1400		
Dry Weight	kg	1500		
SILENT CANOPY TYPE				
Diemensions (LxWxH)	mm	2900x1120X1600		
Dry Weight	kg	1800		

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