The Reliable Supplier for Power System Solution

NW-R Series
Powered by RicardoEngines

NWR / 22

Ratings

Output Ratings	Prime Power	Standby Power
	20 kVA / 16 kW	22 kVA / 17,6 kW
Frekans-Engine Speed	50hz-1500 d/d	

Ratings at 0.8 power factor

1) Ambient reference conditions: 1,000 mbar, 27ºC, 30% relative humidity;
2) Standby Power Standby duty, operation under variable load, without over load;
3) Prime Power-Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours;

Performance Data

Engine Brand & Model		Ricardo & 495D
Alternator Brand & Model		Newpower & NW/N 22
Control System		DKG309
Standard Noise Level @ 7m (Soundproof Sets)		70 dBA
Circuit Breaker Type		3 Pole MCCB
Frequency & Phase		50 Hz & 3 PH
Engine Speed (RPM)		1500
Tank (L)	Open Sets	100
	Soundproof Sets	100
Fuel Consumption (l/hr)	100% Load	10
	75% Load	7.5
	50% Load	5
	25% Load	2.5

Dimensions and Weights

Content		Open Sets	Soundproof Sets
Dimensions (mm)	L	1800	2120
	W	800	900
	H	1300	1700
Weights (kg)		500	800

The Reliable Supplier for Power System Solution

Engine Brand / Model : Ricardo / 495 D

Typical Engine Data

No. Of Cylinders / Alignment	4 / In Line	Gross Engine Power	Prime	26,5
Cycle	4 Stroke		Standby	29,6
Bore / Stroke	100 mm / 115	Compression Ratio		17:1
Induction	TCA	Displacement (L)		3.86
Cooling Method	Water	Governing Type		M & E
Lubricant Oil	15W40-CF4Upgrade	Net Weight (kg)		380

Exhaust System

Exhaust outlet size (internal) (mm) ……..

Lubrication system

Total system capacity

Maximum sump capacity (liters) …… 13

Minimum sump capacity (liters) …….

Lubricating oil pressure

At rated speed (kPa) ……

Minimum @ 80ºC (kPa) …….

Oil filter screen spacing (microns) …….

Oil consumption

Prime power after running in (typically after 250 hours) (g/kWhr) ……

Oil flow rate from pump (liters / sec) …….

Fuel System

Injection system …….

Fuel injection pipe …….

Injector pressure (Mpa) …….

Fuel delivery (l/hr) ……

Cooling system

Electro unit (engine only) (liters) …….

Maximum pressure in crankcase water jacket (kPa) ……

Maximum top tank temperature (standby) (ºC) ……

Maximum static pressure on pump (kPa) ……

Electric System

Voltage ……

Alternator output (A) ……..

Induction system

Maximum air intake restriction on engine: Clean filter (kPa) ……

Dirty filter (kPa) …….

The Reliable Supplier for Power System Solution

Alternator Brand / Model : Newpower & NW/N 22

Rated Output	20 kVA
Exciter	Brushless
THF(BS EN60034 – 1)	<2%
Bearing Number	Single
Windings	100% Copper
Silicon Steel Core Processing	One Piece Punching
Insulation Class	H
Winding Pitch	2 / 3
Amortisseur Winding	Full
A.V.R. Model	AS480
Voltage Regulation (no load – full load)	±1.0%
Under speed Protection	Standard
Protection	IP23
Phase Sequence	A(U), B(V), C(W)
TIF(NEMA MG 1-22)	<50
Excitation System	Self-excited, SHUNT
Ambient Temp	50 ºC
Stator Rated Temp	125 ºC

Control System :

DSE3110

The DSE3110 can be utilised as a Manual or Auto StartModule for single gen-set applications and forms part of DSE's next generation of controlmodules. The module has been designed to work with electronic and non electronic engines providing advanced engine monitoring and protection features. The DSE3110 includes a backlit LCD display which clearly shows the status of the engine at all times. The module monitors engine speed, frequency, voltage and run hours and also displays the warning and shutdown status of the engine.
Themodule includes six digital inputs and four outputs. Two of the outputs are configurable. The module can either be programmed using the front panel or by using the DSE Configuration Suite PC software.
Themodule is available in two variants:Magnetic Pick-up and Canbus.

DSE8610

The DSE8610 is an easy to use multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines.
The DSE8610 monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.
System alarms are annunciated on the LCD screen (multiple language options available), illuminated LED and audible sounder.
The event log will record 250 events to facilitate easy maintenance. An extensive number of fixed and flexible monitoring, metering and protection features are included as well as comprehensive communication and system expansion options.

DKG309

The DKG-309 is a comprehensive AMF unit for single genset standby or dual genset mutual standby operations. The unit is available with MPU or CANBUS versions. The CANBUS version connects to ECU controlled electronic engines providing engine control, protection and instrumentation without extra senders. The ECU alarms are displayed in text. The unit provides a comprehensive set of digitally adjustable timers, threshold levels, input and output configurations, operating sequences and engine types. All programs may be modified via front panel pushbuttons, and do not require an external unit.Last 100 faults are stored in the event log file. The event log includes not only the date-time information, but also a comprehensive list of measured genset parameters at the time that the fault has occurred.The WINDOWS based RAINBOW program allows remote monitoring and control.
The unit offers multiple language support.

The Reliable Supplier for Power System Solution

Optional

Engine	Alternator	Generator	Fuel System	Canopy
• Water Jacket Preheater • Oil Preheater	• Winding Temperature • Measuring Instrument • Alternator Preheater • PMG • Anti –damp and anti-corrosion treatment • Anti-condensation heater	Toolkit with the machine	• Low fuel level alarm • Automatic fuel feeding system • Fuel T-valves	• Trailer • Galvanized
Lubricating System	**Exhaust System**	**Cooling System**	**Control System**	**Voltages**
Oil with the machine	Protection board from hotness	• Front heat protection • Coolant (-30ºC)	• Remote control panel • ATS	• 415/240V • 400/230V • 380/220V

The following lists are optional by the needs of customers.

4BTA Series 1000 Hour Maintaining List				
No.	Part Name	Part No.	Qty	Remark
1	OIL FILTER		6	
2	FUEL FILTER		3	
3	AIR FILTER		2	
4	BELT		2	
5	CYLINDER HEAD GASKET		1	
6	HEAD COVER GASKET		3	
7	OIL SEAL-AIR GATE		8	
8	FRONT OIL SEAL		1	
9	REAR OIL SEAL		1	
10	THERMOSTAT		1	
11	PISTON RING		1	
12	INJECTOR		4	
13	WATER PUMP		1	
14	START MOTOR		1	
15	ALTERNATOR		1	
16	WATER SEP SENSOR		1	
17	OIL PRESSURE SENSOR		1	

E-Mail: info@newpower.com.tr