

The Reliable Supplier for Power System Solution

NW-R Series
Powered by Ricardo Engines

NWR / 180



Ratings

Output Ratings	Prime Power	Standby Power
	162 kVA / 130 kW	180 kVA / 144 kW
Frekans-Engine Speed	50hz-1500 d/d	

Ratings at 0.8 power factor

- 1) Ambient reference conditions: 1,000 mbar, 27°C, 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 & R6105BZLD
Alternator Brand & Model		Newpower & NW/N180
Control System		DKG309
Standard Noise Level @ 7m (Soundproof Sets)		75 dBA
Circuit Breaker Type		3 Pole MCCB
Frequency & Phase		50 Hz & 3 PH
Engine Speed (RPM)		1500
Tank (L)	Open Sets	340
	Soundproof Sets	340
Fuel Consumption (l/hr)	100% Load	34
	75% Load	25.5
	50% Load	17
	25% Load	8.5

Dimensions and Weights

Content		Open Sets	Soundproof Sets
Dimensions (mm)	L	2900	3500
	W	1000	1200
	H	1600	1800
Weights (kg)		1900	2500



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Engine Brand / Model : Ricardo / R6105BZLD

Typical Engine Data

No. Of Cylinders / Alignment	6 / In Line	Gross Engine Power	Prime	127
Cycle	4 Stroke		Standby	145
Bore / Stroke	105 mm / 135 mm	Compression Ratio		16:1
Induction	TCA	Displacement (L)		6,75
Cooling Method	Water	Governing Type		M&E
Lubricant Oil	15W40-CF4Upgrade	Net Weight (kg)		788

Exhaust System

Exhaust outlet size (internal) (mm)75

Lubrication system

Total system capacity

Maximum sump capacity (liters) 22

Minimum sump capacity (liters)18

Oil consumption

Prime power after running in (typically after 250 hours) (g/kWhr)<=1.63

Cooling system

Electro unit (engine only) (liters)25

Maximum top tank temperature (standby) (°C)95

Electric System

Voltage24DC

Alternator output (A)30A

Induction system

Maximum air intake restriction on engine: Clean filter (kPa)10,5

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Alternator Brand / Model : Newpower & NW/N180

Rated Output	165 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 °C
Stator Rated Temp	125 °C

Control System :



DSE3110

The DSE3110 can be utilised as a Manual or Auto Start Module for single gen-set applications and forms part of DSE's next generation of control modules. 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. The module 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. The module 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 push buttons, 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.

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Optional

Engine	Alternator	Generator	Fuel System	Canopy
<ul style="list-style-type: none"> Water Jacket Preheater Oil Preheater 	<ul style="list-style-type: none"> Winding Temperature Measuring Instrument Alternator Preheater PMG Anti -damp and anti-corrosion treatment Anti-condensation heater 	Toolkit with the machine	<ul style="list-style-type: none"> Low fuel level alarm Automatic fuel feeding system Fuel T-valves 	<ul style="list-style-type: none"> Trailer Galvanized
Lubricating System	Exhaust System	Cooling System	Control System	Voltages
Oil with the machine	Protection board from hotness	<ul style="list-style-type: none"> Front heat protection Coolant (-30°C) 	<ul style="list-style-type: none"> Remote control panel ATS 	<ul style="list-style-type: none"> 415/240V 400/230V 380/220V

The following lists are optional by the needs of customers.

6DL Series 1000 Hour Maintaining List				
No.	Part Name	Part No.	Qty	Remark
1	OIL FILTER		8	
2	WATER FILTER		3	
3	FUEL FILTER		3	
4	FUEL FILTER		3	
5	FUEL FILTER		1	
6	AIR FILTER		2	
7	ALTERNATOR BELT		2	
8	FAN BELT		4	
9	HEAD COVER GASKET		3	
10	INJECTOR		6	
11	START MOTOR		1	
12	ALTERNATOR		1	
13	WATER SEP SENSOR		1	
14	OIL PRESSURE SENSOR		1	

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We reserve the right to make changes in model, technical specification, color, configuration and accessories without prior notice. Please contact us before ordering.

