The Reliable Supplier for Power System Solution



NW-P Series
Powered by Perkins Engines

NWP / 165-I

Ratings

Output Ratings	Prime Power	Standby Power
	151 kVA / 121 kW	160 kVA / 133 kW

Variable genset continuous power (PRP - Prime Power) : The assessment criterion for the variable prime power is the permissible average power output over 24 hours. The permissible average power output must not exceed a percentage of the variable genset continuous power output specified by the manufacturer of the genset. The values are between 40 % and 80 %, depending on the system. The operating time of the genset is not limited. The typical area of application for this is gensets that supply systems continuously in stand-alone operation.

Limited-time running power Maximum power (LTP - Limited-Time Running Power) is the maximum power that a genset can deliver within 500 hours per year. The genset may be operated continuously for 300 hours.

Performance Data

Engine Brand & Model		Perkins / 1106A-70TAG2
Alternator Brand & Model		Newpower / NW/N165
Frequency & Phase		50 Hz & 3 Phase
Engine Speed (RPM)		1500
Tank Capacity (L)		330
Fuel Consumption (L/h)	110% Load	36,1
	100% Load	33,4
	75% Load	24,7
	50% Load	16,4
Standard Noise Level @ 7m (Soundproof Sets)		ca. 70 dB

Dimensions and Weights

Content		Open Skid	Canopied
Dimensions (mm)	L	2700 mm	3860 mm
	B	1200 mm	1200 mm
	H	1470 mm	1850 mm
Weights (Kg)		1620 kg	2161 kg

The dimensions of the unit may vary depending on the equipment. Please inform us exactly about the area of application.

The Reliable Supplier for Power System Solution

Engine Features

Perkins Motors, founded in England in 1932 by Frank Perkins, is a leading global manufacturer of diesel and gas engines. Renowned for their reliability, efficiency and performance, Perkins engines power a wide range of applications including agriculture, construction, industry and power generation. From compact engines for small machinery to heavy-duty models for industrial equipment and generators, Perkins offers innovative engineering solutions that meet stringent environmental standards while providing fuel efficiency and durability. With a presence in more than 180 countries, Perkins Engines is recognized worldwide for its commitment to quality and customer satisfaction and is a trusted provider of power solutions for a wide range of industries.

Typical Engine Data / Engine Brand & Model: Perkins / 1106A-70TAG2

No. Of Cylinders / Alignment	6 / Inline	Displacement (L)	7,01
Bore / Stroke	105 mm / 135 mm		
Induction	Turbocharge-Intercooler	Governing Type	Mechanic
Cooling Method	Water	Net Weight (kg)	788
Lubricant Oil	15W-40	Exhaust Outlet Temperature 50 Hz	580 ℃
Emission Standard	Stage II	Exhaust Gas Flow 50 Hz	25,53 m³ / min
Oil Capacity (L)	16,5	Combustion Air Flow 50 Hz	10,67 m³ / min
Engine Gross Power (Standby 50 Hz)	149 kW	Cooling Air Flow 50 Hz	282 m³ / min
Compression Ratio	18,2:1	Coolant Capacity (L)	21

Alternator Data / Brand & Model: Newpower & NWN 165

Nominal Performance	151 kVA	Insulation class	H
Maximum Performance	166 kVA	Protection	IP23
Winding	%100 Copper	Winding pitch	2 / 3
Brush type	Brushless	Amortisseur winding	Full
Generator type	Synchronise	Ambient temp	50 ºC
Bearing	single	Stator rated temp	125 ºC
A.V.R.	SX440 / SX460	Phase Sequence	A(U), B(V), C(W)
Voltage Regulation	±1.0%	THF(BS EN60034-1)	<2%
Trigger system	Self Excitation	TIF(NEMA MG 1-22)	<50

Controlsystem:



InteliLite 4 AMF 8 is a single genset controller for standby and prime power applications. Intuitive, flexible, easy to install and use, the InteliLite 4 AMF 8 controller offers multiple configuration options to create the best solution for on-site and remote control and monitoring of your gensets.

The Reliable Supplier for Power System Solution

Characteristic

Included	Optional
o 4-stroke 1500 rpm, water-cooled heavy-duty diesel engine o Replaceable dry type air filter o Heat resistant cooler for 50°C. o Flexible oil lines and oil drain valve o Single layer, brushless AC generator o batteries and cables o Circuit breaker - RCD protection o Industrial silencer Soundproof Plus o battery charger o cooling water heater o sockets o Galvanized canopy o circuit diagram o User Manual and Instruction Manual	o Automatic transfer switch o External fuel tank o fuel heater o Oil heater o Fuel filling system (automatic / manual) o Analog displays

NEWPOWER

167/5000

We reserve the right to make changes to the model, specifications, color, configuration and accessories without prior notice.Please contact us before placing your order.