The Reliable Supplier for Power System Solution



NW-P Series
Powered by Perkins Engines

NWP / 680

Ratings

Output Ratings	Prime Power	Standby Power
	621 kVA / 496,5 kW	680 kVA / 544 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 / 2806A-E18TAG1A
Alternator Brand & Model		Newpower / NW/N680
Frequency & Phase		50 Hz & 3 Phase
Engine Speed (RPM)		1500
Tank Capacity (L)		970
Fuel Consumption (L/h)	110% Load	134
	100% Load	123
	75% Load	90
	50% Load	61
Standard Noise Level @ 7m (Soundproof Sets)		ca. 82 dB

Dimensions and Weights

Content		Open Skid	Canopied
Dimensions (mm)	L	3500 mm	5360 mm
	B	1650 mm	1650 mm
	H	2160 mm	2450 mm
Weights (Kg)		4425 kg	5566 kg

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

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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 / 2806A-E18TAG1A

No. Of Cylinders / Alignment	6 / Inline	Displacement (L)	18,13
Bore / Stroke	145 mm / 183 mm		
Induction	Turbocharge-Intercooler	Governing Type	Electronic/ECM
Cooling Method	Water	Net Weight (kg)	2050
Lubricant Oil	15W-40	Exhaust Outlet Temperature 50 Hz	571 ℃
Emission Standard	Stage II	Exhaust Gas Flow 50 Hz	104 m³ / min
Oil Capacity (L)	62	Combustion Air Flow 50 Hz	36 m³ / min
Engine Gross Power (Standby 50 Hz)	592,7 kW	Cooling Air Flow 50 Hz	702 m³ / min
Compression Ratio	14,5:1	Coolant Capacity (L)	61

Alternator Data / Brand & Model: Newpower & NWN 680

Nominal Performance	621 kVA	Insulation class	H
Maximum Performance	680 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.

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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.