**The Reliable Supplier for Power System Solution**



NW-P Series
Powered by Perkins Engines

# NWP / 22

## Ratings

| Output Ratings | Prime Power | Standby Power |
|---|---|---|
| | 20 kVA / 16 kW | 22 kVA / 17,6 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 / 404A-22G1 |
| Alternator Brand & Model | | Newpower / NW/N22 |
| Frequency & Phase | | 50 Hz & 3 Phase |
| Engine Speed (RPM) | | 1500 |
| Tank Capacity (L) | | 75 |
| Fuel Consumption (L/h) | 110% Load | 6,1 |
| | 100% Load | 5,3 |
| | 75% Load | 4 |
| | 50% Load | 2,9 |
| Standard Noise Level @ 7m (Soundproof Sets) | | ca. 67 dB |

## Dimensions and Weights

| Content | | Open Skid | Canopied |
|---|---|---|---|
| Dimensions (mm) | L | 1350 mm | 1750 mm |
| | B | 700 mm | 700 mm |
| | H | 1050 mm | 1200 mm |
| Weights (Kg) | | 439 kg | 612 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 / 404A-22G1

| | | | |
|---|---|---|---|
| No. Of Cylinders / Alignment | 4 / Inline | Displacement (L) | 2,216 |
| Bore / Stroke | 84 mm / 100 mm | | |
| Induction | Naturally Aspirated | Governing Type | Mechanical |
| Cooling Method | Water | Net Weight (kg) | 242 |
| Lubricant Oil | 15W-40 | Exhaust Outlet Temperature 50 Hz | 505 ℃ |
| Emission Standard | Stage II | Exhaust Gas Flow 50 Hz | 3,94 m³ / min |
| Oil Capacity (L) | 8 | Combustion Air Flow 50 Hz | 1,45 m³ / min |
| Engine Gross Power (Standby 50 Hz) | 20,6 kW | Cooling Air Flow 50 Hz | 35,4 m³ / min |
| Compression Ratio | 23,3:1 | Coolant Capacity (L) | 7 |

## Alternator Data / Brand & Model: Newpower & NWN 22

| | | | |
|---|---|---|---|
| Nominal Performance | 20 kVA | Insulation class | H |
| Maximum Performance | 22 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<br>o Replaceable dry type air filter<br>o Heat resistant cooler for 50°C.<br>o Flexible oil lines and oil drain valve<br>o Single layer, brushless AC generator<br>o batteries and cables<br>o Circuit breaker - RCD protection<br>o Industrial silencer Soundproof Plus<br>o battery charger<br>o cooling water heater<br>o sockets<br>o Galvanized canopy<br>o circuit diagram<br>o User Manual and Instruction Manual | o Automatic transfer switch<br>o External fuel tank<br>o fuel heater<br>o Oil heater<br>o Fuel filling system (automatic / manual)<br>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.