# Power Generation

## G-Drive

## N45

# N45 SM3

*81 kWm @ 1500 rpm*

*Non Emissions Certified*

POWER GENERATION

## SPECIFICATIONS

| | | | |
|---|---|---|---|
| Thermodynamic Cycle | | | Diesel 4 stroke |
| Arrangement | | | 4L |
| Air Handling | | | TC |
| Bore x Stroke | millimeters | | 104 x 132 |
| Total Displacement | liters | | 4.5 |
| Cooling System | | | liquid (water - paraflu 50%) |
| Direction of Rotation (viewed facing flywheel) | | | CCW |
| Speed governor | | | Mechanical |
| Injection System | | | M |
| Flywheel housing | | type | - |
| Flywheel size | | inch | - |
| Oil and oil filter maintenance interval for replacement | | hours | 800 |
| Specific fuel consumption at 1500 Stand-by | | l/h (g/kWh) | - (-) |
| Specific fuel consumption at 1500 100% Prime Power | | l/h (g/kWh) | 19.4 (216.7) |
| Specific fuel consumption at 1500 80% Prime Power | | l/h (g/kWh) | 15.4 (215.4) |
| Specific fuel consumption at 1500 50% Prime Power | | l/h (g/kWh) | 9.6 (214.4) |
| Specific fuel consumption at 1800 Stand-by | | l/h (g/kWh) | - (-) |
| Specific fuel consumption at 1800 100% Prime Power | | l/h (g/kWh) | - (-) |
| Specific fuel consumption at 1800 80% Prime Power | | l/h (g/kWh) | - (-) |
| Specific fuel consumption at 1800 50% Prime Power | | l/h (g/kWh) | - (-) |
| ATB (without canopy) at 1500 | | °C | 49 |
| ATB (without canopy) at 1800 | | °C | - |
| Lube oil total system capacity including pipes, filters etc. | | liter | ~12.8 |
| Electric system (isolated return) | | Vcc | 12 |
| Starting batteries: recommended capacity | | Ah | 1 x 100 Ah |
| Discharge Current (EN50342) | | A | 650 |
| Cold starting: without preheating | | °C | -10 |
| Cold starting: with preheating | | °C | -25 |

## WEIGHT AND DIMENSIONS

| | | |
|---|---|---|
| Dimensions | LxWxH (mm) | 1259 x 657 x 1016 |
| Dry Weight | Kg | 450 |

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS

IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## PERFORMANCES

| | | |
|---|---|---|
| Rated Stand-by Power at 1500 rpm | kWm | 81 |
| Rated Prime Power at 1500 rpm | kWm | 73 |
| Rated Continuous at 1500 rpm | | - |
| Rated Stand-by Power at 1800 rpm | kWm | 97 |
| Rated Prime Power at 1800 rpm | kWm | 88 |
| Rated Continuous at 1800 rpm | | - |

PRIME POWER: The prime power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND-BY POWER: The stand-by power is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overloads is permissible for this use.

CONTINUOUS POWER: Contact the FPT sales organization.

### LEGEND

**Arrangement**

L (in line)

V (90° "V" configuration)

**Air Handling**

TCA (Turbocharged with aftercooler)

TC (Turbocharged)

NA (Naturally Aspirated)

**Injection System**

M (Mechanical)

ECR (Electronic Common Rail)

EUI (Electronic Unit Injector)

MPI (Multi Point Injection)

**MORE INFORMATION ABOUT CONFIGURATIONS AND ACCESSORIES AVAILABILITY, THROUGH THE WORLDWIDE FPT INDUSTRIAL DISTRIBUTORS NEYWORK**

**NOT ALL MODELS, STANDARD EQUIPMENT AND ACCESSORIES ARE AVAILABLE IN ALL COUNTRIES. SPECIFICATIONS AND OPTIONS MAY CHANGE WITHOUT NOTICE**

## OPTIONAL EQUIPMENT

Upon specific request, engines can be supplied with the following accessories: - 24V electric system - SAE 3 flywheel housing prearranged for "pick up" - Water pre-heater - 12V or 24V electronic governor - Exhaust elbow with flex bellow - Exhaust silencer (loose) - Front radiator guard - Exhaust manifold & turbo guards - Oil drain pump - Oil drain valve - Low water level alarm sender - Tools box

POWER GENERATION

PRIME POWER: The prime power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND-BY POWER: The stand-by power is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overloads is permissible for this use.

CONTINUOUS POWER: Contact the FPT sales organization.

### LEGEND

| Arrangement | Air Handling | Injection System |
|---|---|---|
| L (in line) | TCA (Turbocharged with aftercooler) | M (Mechanical) |
| V (90° "V" configuration) | TC (Turbocharged) | ECR (Electronic Common Rail) |
| | NA (Naturally Aspirated) | EUI (Electronic Unit Injector) |
| | | MPI (Multi Point Injection) |

**MORE INFORMATION ABOUT CONFIGURATIONS AND ACCESSORIES AVAILABILITY, THROUGH THE WORLDWIDE FPT INDUSTRIAL DISTRIBUTORS NEYWORK**

**OT ALL MODELS, STANDARD EQUIPMENT AND ACCESSORIES ARE AVAILABLE IN ALL COUNTRIES. SPECIFICATIONS AND OPTIONS MAY CHANGE WITHOUT NOTIC**