



Powered by:
PERKINS 2.306C - E14TAG3

400 kVA at 50 Hz

| Generating Set Performance | | 50 Hz | |
|----------------------------|--------|-----------------------|----------------|
| SERVICE | | P.R.P (1) | Standby (2) |
| Rated output | kVA | 400 | 440 |
| Active power output * | kW | 320 | 352 |
| Rated speed | r.p.m. | 1.500 | |
| Standard Voltage | V | 400 | |
| Voltage available | V | 380 / 220 - 415 / 240 | |

Performance data refers to Standard Reference Conditions of ISO 8528 : + 25 °C , 100 m ALT, relative humidity 30 %

During running-in period the output increases by approx. 5 % which is taken into consideration at delivery.

Power reduction acc. to DIN ISO 3046. Standard values: Above 100 m ALT approx. 1 % per 100 m. Above 25 °C (77 °F) approx. 4 % per 10 °C (50 °F).

* Considering cos phi= 0,8

| Prime Mover Performance | | 1.500 r.p.m. | |
|---|-------|------------------------------|----------------|
| SERVICE | | P.R.P (1) | Standby (2) |
| Rated output | kW | 344 | 387 |
| Manufacturer | | Perkins | |
| Engine model | | 2.306C - E14TAG3 | |
| 4 stroke Diesel Engine - Injection type | | DIRECT | |
| Aspiration type | | TURBOCHARGED AND AFTERCOOLED | |
| Cylinders, number and arrangement | | 6 - L | |
| Bore x stroke | mm | 137 x 165 | |
| Total displacement | L | 14,6 | |
| Cooling system | | WATER | |
| Lube oil specifications | | SAE 15 W 40 | |
| Compression ratio | | 15,9 : 1 | |
| Specific fuel consumption (P.R.P) | L / h | 70,6 | |
| Specific oil consumption (at full load) | % | 0,1 | |
| Lube oil maximum capacity | L | 68 | |
| Total coolant capacity | L | 47 | |
| Speed governor | Type | ELECTRONIC | |
| Air filter | Type | DRY | |

(1) Prime Power (P.R.P.) - ISO 8528: prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) Max Stand-by power (ISO 3046 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% loads 25 h per year - 90% loads 200 h per year No overload available. Applicable in case of failure of the main in areas of reliable electrical network.

| Synchronous Generator * | | |
|-----------------------------------|-------|--|
| Poles | Nº | 4 |
| Winding connections (standard) | | Star - serie |
| Frame mounting | | SAE 1/2 - 14" |
| Insulation | class | H |
| Enclosure (according to IEC-34-5) | | IP 23 |
| Phases | | Self-regulating Brushless |
| Voltage regulator | | A.V.R (Electronic) |
| Steady voltage precision | | within ± 1% from no load to full loading with cosφ=0,8+1 |

| Generating Set Installation Data | | 1.500 r.p.m. |
|---|----------------------|--------------|
| EXHAUST SYSTEM | | |
| Max. exhaust temperature at full load | ° C | 509 |
| | ° F | 948,2 |
| Exhaust gas flow | m ³ /min | 60,2 |
| Heat rejected to exhaust | kcal/kWh | 293 |
| Maximum allowed back pressure | mm H ₂ O | NA |
| AIR REQUIREMENT | | |
| Air requirement for combustion at 100% load / rated speed | m ³ /min | 23,8 |
| | ft ³ /min | 840,5 |
| ELECTRIC STARTING SYSTEM | | |
| Starting motor output | kW | 7,65 |
| | CV | 10,39 |
| Minimum recommended battery capacity | Ah | 2 x 128 |
| Auxiliary voltage | Vcc. | 24V |
| LIQUID CAPACITY | | |
| Lube oil system including sump, filters, etc. | L | 68 |
| FUEL TANK CAPACITY | | |
| Open Skid Genset | L | 595 |
| Soundproofed | L | 595 |

| Generating Set transport data | | |
|--|----------------------------------|----------------|
| WEIGHT AND DIMENSIONS OPEN SKID GENSET | | |
| Length | m - ft | 3,31 - 10,85 |
| Width | m - ft | 1,39 - 4,55 |
| Height | m - ft | 1,96 - 6,44 |
| Shipping volume seaworthy (Standard supplier) | m ³ - ft ³ | 9,04 - 317,92 |
| Dry weight (with standard accessories) | kg - lb | 3.580 - 7.876 |
| WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET | | |
| Length | m - ft | 4,1 - 13,45 |
| Width | m - ft | 1,6 - 5,24 |
| Height | m - ft | 2,2 - 7,24 |
| Shipping volume seaworthy (Standard supplier) | m ³ - ft ³ | 14,49 - 510,26 |
| Dry weight (with standard accessories) | kg - lb | 4.940 - 10.868 |

