



Generator Engine Performance Data

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Basic Engine Model:

6CTA8.3-G1

FR93038

FR93038 @ 1500 RPM

Configuration
D413059GX03

CPL Code
CPL: 1786

Revision
2020/5/15

Compression Ratio: **17.3:1**
Bore: **114 mm**
Stroke: **135 mm**
Emission Certification:
Governor Regulation: **≤8%**

Aspiration: **Jacket water Aftercooled**
Displacement: **8.3 L**
No. of Cylinders: **6**
Fuel System: **FR923038:BYC PB/RSV**

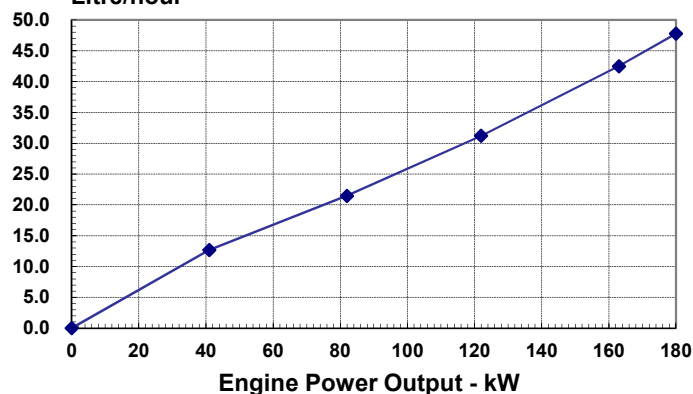
All data is based on the engine operating with fuel system, water pump, and 14.8 in H₂O (3.7 kPa) inlet air restriction with 5.98 in (152mm) inner diameter, and with 2.95 in Hg (10 kPa) exhaust restriction with 4.02 in (102 mm) inner diameter; not included are alternator, fan, optional equipment and driven components. Coolant flows and heat rejection data based on coolants as 50% ethylene glycol/50% water. All data is subject to change without notice.

| Engine Speed | Standby Power | | Prime Power | | Continuous Power | |
|--------------|---------------|-----|-------------|-----|------------------|-----|
| RPM | kW | HP | kW | HP | kW | HP |
| 1500 | 180 | 241 | 163 | 218 | 133 | 178 |
| | | | | | | |

Engine Performance Data @ 1500 RPM

| OUTPUT POWER | | | FUEL CONSUMPTION | |
|------------------|-----|-----|------------------|------|
| % | kW | HP | g/kW.h | L/h |
| STANDBY POWER | | | | |
| 100 | 180 | 241 | 219 | 48.0 |
| PRIME POWER | | | | |
| 100 | 163 | 218 | 215 | 42.0 |
| 75 | 122 | 164 | 211 | 31.0 |
| 50 | 82 | 109 | 216 | 21.0 |
| 25 | 41 | 55 | 255 | 13.0 |
| CONTINUOUS POWER | | | | |
| 100 | 133 | 178 | 212 | 34 |

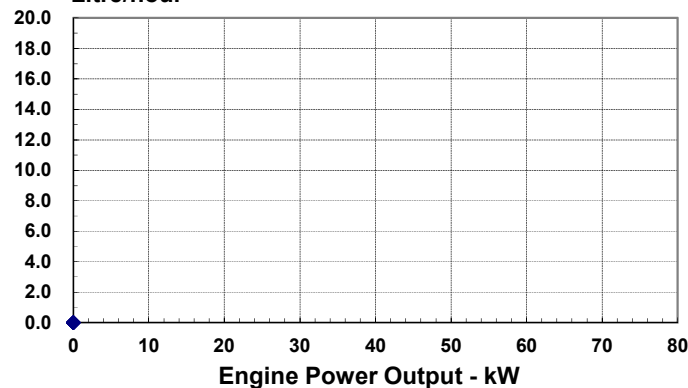
Litre/hour



Engine Performance Data @ 1800 RPM

| OUTPUT POWER | | | FUEL CONSUMPTION | |
|------------------|----|----|------------------|-----|
| % | kW | HP | g/kW.h | L/h |
| STANDBY POWER | | | | |
| | | | | |
| PRIME POWER | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| CONTINUOUS POWER | | | | |
| | | | | |

Litre/hour



Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with GB/T18297 conditions of 100kPa (29.61 in. Hg) barometric pressure [80 m (263 ft.) altitude], 25°C (77°F) inlet air temperature, and 1 kPa (0.30 in. Hg) water vapor pressure with No.0 diesel fuel.