X3.3-G1

Description
The X3.3 has all the strength and reliability the genset industry has come to expect from the X Series range but in a smaller, lighter and more economical package. The X3.3 features direct fuel injection, resulting in cleaner, quieter and more fuel efficient performance. With a highly compact 4 cylinder envelope and extremely low heat rejection, the engine offers a high degree of installation flexibility.

Features
Bosch direct injection in-line pump for cleaner, more efficient fuel consumption.

Parent bore block with deep, stiff crankcase and optimized rib arrangement to enhance strength and reduce noise.

12 volt electrical package as standard, with starter, alternator and fuel solenoid.

Minimal de-rate for high altitude or high ambient applications.

Shallow oil pan and single spin-on oil and fuel filter.

SAE ‘3/11.5’ flywheel/flywheel housing.

Integrated Design - CoolPac products are supplied fitted with cooling package and heavy duty air cleaner for a complete power package. Each component has been specifically developed and rigorously tested for G-Drive products, ensuring high performance, durability and reliability.

Service and Support - G-Drive products are backed by an uncompromising level of technical support and after sales service, delivered through a world class service network.

1500 rpm (50 Hz Ratings)

<table>
<thead>
<tr>
<th>Gross Engine Output</th>
<th>Net Engine Output</th>
<th>Typical Generator Set Output</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standby</td>
<td>Prime</td>
</tr>
<tr>
<td></td>
<td>kWm/BHP</td>
<td>kWm/BHP</td>
</tr>
<tr>
<td>36/48</td>
<td>32/43</td>
<td>25.2/33.7</td>
</tr>
</tbody>
</table>

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(10/12) (GDSS168)
General Engine Data

Type
4- cycle, In-line, 4- cylinder, Naturally Aspirated, Diesel,

Bore mm
91.4 mm (3.59 in.)

Stroke mm
127 mm (5 in.)

Displacement Litre
3.3 litre (204 in.³)

Cylinder Block
Cast iron, 4 cylinder

Battery Charging Alternator
36 amps

Starting Voltage
12 volt, negative ground

Fuel System
Direct injection

Fuel Filter
Spin on fuel filters with water drain facility

Lube Oil Filter Type(s)
Spin on full flow filter

Lube Oil Capacity (l)
6.5

Flywheel Dimensions
3/11.5

Coolpac Performance Data

Cooling System Design
Jacket water cooled

Coolant Ratio
50% ethylene glycol; 50% water

Coolant Capacity (l)
8.6

Limiting Ambient Temp.**
50 degC

Fan Power (kw)
1

Cooling System Air Flow (m³/s)**
1.7

Air Cleaner Type
Heavy Duty Dry replaceable element with restriction indicator

** @ 8 mm H₂O Prime power

Weight & Dimensions

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight (dry)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CoolPac</td>
<td>1124</td>
<td>687</td>
<td>796</td>
</tr>
<tr>
<td>Shipping</td>
<td>1190</td>
<td>780</td>
<td>1050</td>
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</table>

Fuel Consumption 1500 (50 Hz)

<table>
<thead>
<tr>
<th></th>
<th>%</th>
<th>kWm</th>
<th>BHP</th>
<th>L/ph</th>
<th>US gal/ph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby Power</td>
<td>100</td>
<td>36</td>
<td>48</td>
<td>10.4</td>
<td>2.7</td>
</tr>
<tr>
<td>Prime Power</td>
<td>100</td>
<td>32</td>
<td>43</td>
<td>8.5</td>
<td>2.3</td>
</tr>
<tr>
<td></td>
<td>75</td>
<td>24</td>
<td>33</td>
<td>6.1</td>
<td>1.7</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>16</td>
<td>22</td>
<td>4.3</td>
<td>1.2</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>8</td>
<td>11</td>
<td>2.8</td>
<td>0.7</td>
</tr>
<tr>
<td>Continuous Power</td>
<td>100</td>
<td>25.2</td>
<td>33.78</td>
<td>6.4</td>
<td>1.7</td>
</tr>
</tbody>
</table>

Ratings Definitions

Emergency Standby Power (ESP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Limited-Time Running Power (LTP):
Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.

Prime Power (PRP):
Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

Base Load (Continuous) Power (COP):
Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

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