Allison 601-K9
Allison 601-K11
Oil & gas applications
Power generation

Features

6.7 MW and 8.2 MW
Power class
34% Thermal efficiency

• Variable geometry 12-stage compressor, high efficiency, 3-stage power turbine, low emissions combustion system, & a digital electronic control

• Modular design for ease of maintenance

• Compact design with high horsepower-to-space/weight ratio

• Engine change out in as little as 8 hours

• Cold end drive

• K11 configuration incorporates a two-stage boost module to increase power & efficiency

Description

The Allison 601-K9 and 601-K11 engines are members of a new family of high efficiency gas turbine engines.

Technology enhancements for improving performance, durability, reliability, cost and emissions have been incorporated.

The 601-K series engines are designed to meet the demanding requirements of the industrial market. Lower operating costs are achieved through dramatic fuel consumption reductions and a compact, modular engine arrangement which is easily maintained.

Rolls-Royce knows there is more to customer satisfaction than manufacturing a quality gas turbine engine. Beginning with robust design, the most advanced manufacturing techniques, and rigid verification testing, our team continues to serve our customers with a global network of support. These power products are backed by this comprehensive service worldwide.
## Industrial gas turbine engine specification*

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary application</td>
<td>Genset</td>
<td>Genset</td>
<td>Genset</td>
<td>Mech. drive</td>
<td>Mech. drive</td>
<td>Genset</td>
<td>Genset</td>
</tr>
<tr>
<td>Fuel type (rated)</td>
<td>Gas</td>
<td>Gas</td>
<td>Gas</td>
<td>Gas</td>
<td>Gas</td>
<td>Gas</td>
<td>Gas</td>
</tr>
<tr>
<td>Shaft power, kw</td>
<td>4101</td>
<td>6750</td>
<td>5518</td>
<td>4101</td>
<td>5369</td>
<td>6711</td>
<td>8202</td>
</tr>
<tr>
<td>hp</td>
<td>5500</td>
<td>9050</td>
<td>7400</td>
<td>5500</td>
<td>7200</td>
<td>9000</td>
<td>11000</td>
</tr>
<tr>
<td>Heat rate, kj/kw-hr</td>
<td>11780</td>
<td>8530</td>
<td>10992</td>
<td>12018</td>
<td>11226</td>
<td>10710</td>
<td>10395</td>
</tr>
<tr>
<td>Btu/hp-hr</td>
<td>8325</td>
<td>6028</td>
<td>7770</td>
<td>8495</td>
<td>7935</td>
<td>7570</td>
<td>7350</td>
</tr>
<tr>
<td>SFC, lbs/hp-hr</td>
<td>0.407</td>
<td>0.300</td>
<td>0.380</td>
<td>0.416</td>
<td>0.389</td>
<td>0.370</td>
<td>0.360</td>
</tr>
<tr>
<td>Exhaust flow, kg/sec</td>
<td>15.4</td>
<td>18.4</td>
<td>20.8</td>
<td>15.5</td>
<td>20.8</td>
<td>24.4</td>
<td>30.8</td>
</tr>
<tr>
<td>lb/sec</td>
<td>33.9</td>
<td>40.6</td>
<td>45.8</td>
<td>34.2</td>
<td>45.8</td>
<td>53.9</td>
<td>67.9</td>
</tr>
<tr>
<td>Exhaust temp., deg. °C</td>
<td>559</td>
<td>529</td>
<td>513</td>
<td>571</td>
<td>514</td>
<td>515</td>
<td>479</td>
</tr>
<tr>
<td>deg. °F</td>
<td>1040</td>
<td>982</td>
<td>956</td>
<td>1060</td>
<td>957</td>
<td>959</td>
<td>894</td>
</tr>
<tr>
<td>Output speed, (rpm)</td>
<td>14200</td>
<td>14600</td>
<td>14600</td>
<td>13600</td>
<td>13600</td>
<td>11500</td>
<td>11500</td>
</tr>
</tbody>
</table>

* Nominal engine performance, ISO, n o losses, gaseous fuel 20,400 BTU/lb
** Steam injection: 2.72 Kg/sec @ 482° C (6.0 lb/sec @ 900°F)

---

**Allison 601-K family of engines**

**Allison 601-K9**
- Est. weight: 3,000 lbs

**Allison 601-K9 DLE**
- Est. Weight: 3,700 lbs

**Allison 601-K11**
- Est. weight: 3,800 lbs

**Allison 601-K11 DLE**
- Est. weight: 4,500 lbs

---

**Rolls-Royce Allison**
P.O. Box 420
Indianapolis, Indiana 46206-0420 USA
Phone: (317) 230-4151
Fax: (317) 230-2900
www.rolls-royce.com

While this information is provided in good faith, no warranty or representation is given concerning such information, which must not be taken as establishing any contractual or other commitment binding upon Rolls-Royce Allison, its parent company or any of its subsidiary or associated companies.