## Characteristics Summary

**HEAVY BOMBER** ~~~~ **B-52G**

**STRATOFORTRESS**

- Wing Area: 4000 sq ft
- Length: 157.6 ft
- Span: 185.0 ft
- Height: 40.7 ft
- Height (Fin folded): 21.5 ft

### AVAILABILITY

<table>
<thead>
<tr>
<th>Number available</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST</td>
<td>INVENTORY</td>
</tr>
<tr>
<td>11</td>
<td>179</td>
</tr>
</tbody>
</table>

### STATUS

1. Major differences from the B-52F are: reduced span fin, deletion of ailerons, 700 gallon fixed external tanks, enlarged nose radomes, relocation of gunner, integral wing fuel tanks, reduced empty weight and increased max. gross weight. Navy Equivalent: None

Mfr's Model: 464-253

### POWER PLANT

(8) J57-P-43WB ***
Pratt & Whitney

**ENGINE RATINGS**

- S.L.S. LB - **RPM - MIN**
- Max: 13,750 - 6800/9650 - 5
- Mil: 11,200 - 6400/9650 - 30
- Nor: 9,500 - 6100/9350 - Cont

* Wet
** First figure represents low pressure spool; second figure represents high pressure spool
*** Equipped with sound suppressors

Note: There are no requirements for ATO

### FEATURES

- Crew: 6
- Cabin pressurization, heating and cooling
- ASG-9 Improved Hi Speed Bombing Radar
- ASG-15 Fire control sys.
- Quadricycle landing gear with cross-wing steering
- Braking parachute
- Aerodynamic spoilers
- (airbrakes)
- Anti-skid brakes
- Single-point ground and air refueling provisions
- Liquid oxygen system
- 4 Engine driven 40 KVA alternators
- 6 Engine driven hyd. pumps
- Folding fin.

Max fuel cap: 47,075 gal

### ARMAMENT

- **Turret**: 1
- Gns: 4 x 50 cal
- Ammunition: (total) 2400 rds

**BOMBS**

- 27 (family of clusters)(1000 lb ea)

Special Weapons

- *MK 6
- MK 15
- MK 28
- MK 36
- MK 39
- MK 41

*1st 154 G's only

Note:

Airplane will carry 4 GAM-72 & 2 GAM-77 missiles or 4 GAM-87 missiles after retrofit.

Max Bomb Load: (2) 17,700 lb
**Characteristics Summary Basic Mission**

**B-52G**

**Performance**

<table>
<thead>
<tr>
<th>Combat Radius</th>
<th>Ferry Range</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3460 naut. mi</strong>&lt;br&gt;with 10,000/400/270 lb payload&lt;br&gt;at 454 knots avg.&lt;br&gt;in 15.30 hours</td>
<td><strong>7270 naut. mi</strong>&lt;br&gt;with 43,986 gal fuel&lt;br&gt;at 454 knots avg.&lt;br&gt;in 16.08 hours&lt;br&gt;at (b) 450,000 lb T.O. wt.</td>
<td><strong>495</strong> (TAS) knots at 46,000 ft alt., mil power</td>
</tr>
<tr>
<td><strong>2425 fpm</strong>&lt;br&gt;sea level, take-off weight&lt;br&gt;normal power</td>
<td><strong>38,400 ft</strong>&lt;br&gt;100 fpm, take-off weight&lt;br&gt;normal power</td>
<td><strong>553</strong> (e) knots at 20,500 ft alt., mil power</td>
</tr>
<tr>
<td><strong>5850 fpm</strong>&lt;br&gt;sea level, combat weight&lt;br&gt;military power</td>
<td><strong>47,100 ft</strong>&lt;br&gt;500 fpm, combat weight&lt;br&gt;military power</td>
<td><strong>521</strong> knots at 35,000 ft alt., mil power</td>
</tr>
</tbody>
</table>

**Climb Ceiling Take-off**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
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</table>

**Load Weights Stallling Speed**

<table>
<thead>
<tr>
<th>Bomb/Chaff/Flares: 10,000/400/270 lb&lt;br&gt;Ammunition 2400 rds., .50 cal.</th>
<th>Empty... 158,500 lb&lt;br&gt;Combat... 281,390 lb&lt;br&gt;Take-off (b) 450,000 lb&lt;br&gt;Limited by structure (inflight)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>147 knots</strong>&lt;br&gt;power-off, landing config.&lt;br&gt;uration, take-off weight (d)</td>
<td><strong>19.1 minutes to climb</strong>&lt;br&gt;altitude of 33,400 ft.</td>
</tr>
</tbody>
</table>

**Notes**

1. Performance Basis:
   - (a) Data Source: Flight test
   - (b) Does not include 10,000 lb water
   - (c) Based on 42,345 gallon load
   - (d) Initial buffet
   - (e) Limited by structure
2. Revision Basis: Data reCOORDINATED.
**Supplemental Characteristics Summary Basic Mission - ALTERNATE IN-FLIGHT**

**PERFORMANCE (a)**

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>FERRY RANGE</th>
<th>SPEED (TAS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3785 naut. mi with 10,000/400/270 lb payload</td>
<td>7735 naut. mi with 47,975 gal fuel at 454 knots avg. in 17.1 hours at 475,928 lb T.O. wt.</td>
<td>COMBAT 494 knots at 45,100 ft alt., mill power</td>
</tr>
<tr>
<td>at 454 knots avg. in 16.74 hours.</td>
<td></td>
<td>MAX - 553 knots at 20,500 ft alt., mill power</td>
</tr>
</tbody>
</table>

**CLIMB**

<table>
<thead>
<tr>
<th>SEALEVEL, TAKE-OFF</th>
<th>CEILING</th>
<th>TAKE-OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>2180 fps sea level, take-off weight normal power</td>
<td>36,700 ft 100 fps, take-off weight normal power</td>
<td>ground run 8100 ft</td>
</tr>
<tr>
<td>5560 fps sea level, combat weight military power</td>
<td>46,150 ft 500 fps, combat weight military power</td>
<td>over 50 ft height 10,350 ft</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LOAD</th>
<th>WEIGHTS</th>
<th>STALLING SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bombs/Chaff/Flares: 16,000/400/270 lb Ammunition 2400 rounds/50 cal.</td>
<td>Empty...... 158,590 lb</td>
<td>153 knots power-off, landing configuration, take-off weight (d)</td>
</tr>
<tr>
<td>Fuel: 47,975 gal protected 0 %</td>
<td>Combat.... 294,656 lb</td>
<td></td>
</tr>
<tr>
<td>droppable 0 %</td>
<td>Take-off (b) 486,598 lb</td>
<td></td>
</tr>
<tr>
<td>external 2.9 %</td>
<td>limited by fuel capacity</td>
<td></td>
</tr>
<tr>
<td>Density (JP-4) lb/gal (6.5)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

1. Performance Basis:
   (a) Data Source: Flight Test
   (b) Does not include 10,000 lb water
   (c) Limited by structure
   (d) Initial buffet

2. Revision Basis: Data re-coordinated.