

Lockheed P-38E Lightning

A/C Type: Long-range Twin engine fighter
 Engine(s): Two Allison V-1710-27/29 inline
 Eng. Pwr: 2080-2300 hp, liquid-cooled
 A/C Crew: Pilot

Maximum Speed: 395 mph at 25,000 ft
 Maximum Ceiling: 39,000 ft.

Defense factor: 5 Size Modifier: +0
 Damage Factor: 12/18 Endurance: 165
 Cockpit View: Fair Blind Area: Rear, Low

Protection: Cockpit +1 Fuel +1 Engine +0

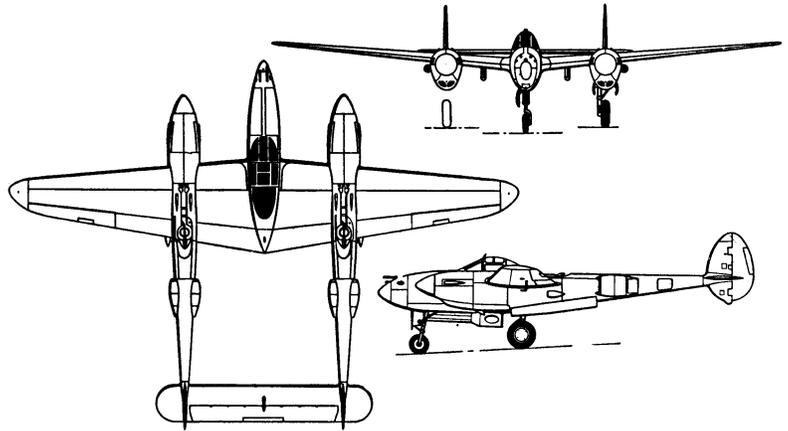
Climb Decel/ Dive Accel: 3.0 / 1.0

Weight and Load Limit: none

Wpn Stations Weight Allowed Loads

Country: USA

Service Entry Date: October, 1941



Class: F

Victory Points: 6-12

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(5)	Min HT(6)	Min BT(7)	Min ET(8)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	3.5	7.0	9.5	5.0	7.0	8.5	10.0	37-42	EH	600
31-36	VH	3.0	7.5	10.0	4.5	6.0	7.5	8.5	31-36	VH	1,200
25-30	HI	3.0	8.0	10.0	4.0	5.5	6.5	7.5	25-30	HI	1,600
19-24	MH	2.5	8.0	10.5	3.5	5.0	6.0	7.0	19-24	MH	2,000
13-18	ML	2.5	7.5	10.0	3.0	4.5	5.5	6.5	13-18	ML	2,300
7-12	LO	2.0	7.0	10.0	3.0	4.0	5.0	6.0	7-12	LO	2,700
1-6	VL	2.0	7.0	9.5	2.5	3.5	4.5	6.0	1-6	VL	3,000

FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One 20mm Hisp. Sz. M1	5	2
N2	Two .50 cal M2 mg	18	3
N3	Two .50 cal M2 mg	18	3
N4	One 37mm M-7 cannon	8	1

GUN ATTACK FACTORS

Range	N1	N2	N3	N4*	Total
0	18	18	18	8	54
1	12	13	13	6	38
2	8	9	9	4	26
3	6	6	6	3	18
4	4	4	4	2	12
5	3	3	3	1	9
6	2	2	2	--	6
7	--	--	--	--	--

WEAPON STATION LOCATION



POWER VERSUS SPEED CHART

(per engine)

Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
43+	UH	--	--	--	--	UH
37-42	EH	1/-	0.5/-	--	--	EH
31-36	VH	2/-	1/-	--	--	VH
25-30	HI	2.5/3.5	1.5/2.0	0.5/1.0	--	HI
19-24	MH	3/4	2.0/2.5	1.0/1.5	--	MH
13-18	ML	3.5/4.5	2.5/3.0	--	--	ML
7-12	LO	3.5/4.5	2.5/3.0	--	--	LO
1-6	VL	3.5/4.5	2.5/3.0	--	--	VL
Banking FPs		3	4	5	7	
Side Slip FPs		4	6	7	9	

NOTES AND VARIANTS

Early P-38s: Tempermental engines +2 for A/C malfunction rolls; -1 to Eng critical rolls at MH+. Roll for compressibility loss of control anytime listed above max.safe dive speed.

P-38D: Available Aug 1941. Not considered battle-ready. Most used for training but a few were sent to Alaska after Pearl Harbor. N4 gun vice N1; fired separately from other guns. 36 built.

P-38E: Available Oct 1941. Most used for training. But right after Pearl Harbor, they were assigned to operational squadrons guarding the west coast. About 20 sent to Ft. Glenn AK w/ 54th & 55th FS. 6 P-38Es engaged 6 A6M2-N Rufe sea plane fighters in July 1942. Phased out in Alaska by winterized P-38G-10s by end of 1942. 111 built.

F-4 recon: Avail March 1942. Unarmed P-38E (4 K-17 cameras). 99 built.

Lockheed P-38F-15 Lightning

Country: USA

Service Entry Date: August, 1942

A/C Type: Long-range Twin engine fighter
 Engine(s): Two Allison V-1710-49/53 inline
 Eng. Pwr: 2200-2450 hp, liquid-cooled
 A/C Crew: Pilot

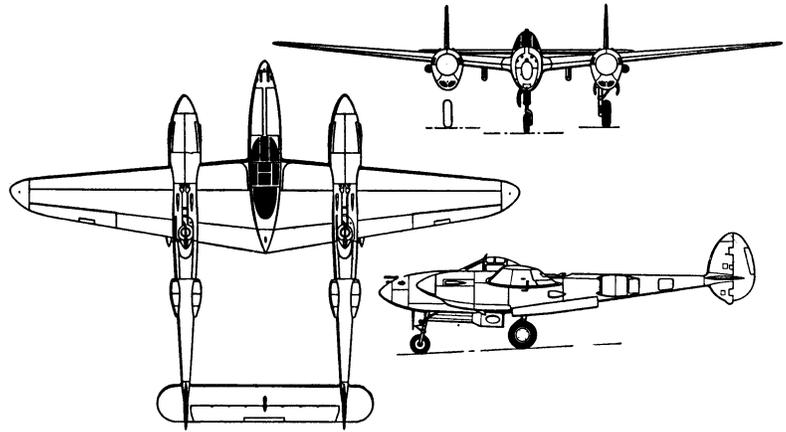
Maximum Speed: 395 mph at 25,900 ft
 Maximum Ceiling: 39,000 ft.

Defense factor: 5 Size Modifier: +0
 Damage Factor: 13/19 Endurance: 250
 Cockpit View: Fair Blind Area: Rear Low

Protection: Cockpit +1 Fuel +2 Engine +0

Climb Decel/ Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 2000 / 3-8

Wpn Stations Weight Allowed Loads
 1,2 (i-15bis only) 1000 lbs 1x 250, 500, or
 1000 lb bomb or
 62.5 or 125-gal FT



Class: F

Victory Points: 7-13

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(5)	Min HT(6)	Min BT(8)	Min ET(9)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	3.5	7.5	9.5	5.5	7.5	8.5	10.0	37-42	EH	800
31-36	VH	3.0	8.0	10.0	5.0	6.5	8.0	9.0	31-36	VH	1,500
25-30	HI	3.0	8.0	10.0	4.5	6.0	7.0	8.0	25-30	HI	2,000
19-24	MH	2.5	8.0	10.5	4.0	5.5	6.5	7.5	19-24	MH	2,200
13-18	ML	2.5	7.5	10.0	3.5	5.0	6.0	7.0	13-18	ML	2,400
7-12	LO	2.0	7.0	10.0	3.0	4.5	5.5	6.0	7-12	LO	2,500
1-6	VL	2.0	7.0	9.5	3.0	4.0	5.0	6.0	1-6	VL	2,800

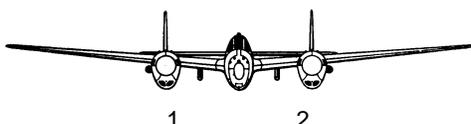
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One 20mm Hisp. Sz. M1	5	2
N2	Two .50 cal M2 mg	18	3
N3	Two .50 cal M2 mg	18	3

GUN ATTACK FACTORS

Range	N1	N2	N3	Total
0	18	18	18	54
1	12	13	13	38
2	8	9	9	26
3	6	6	6	18
4	4	4	4	12
5	3	3	3	9
6	2	2	2	6
7	--	--	--	--

WEAPON STATION LOCATION



POWER VERSUS SPEED CHART

(per engine)

Levels	Bands	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	Band
43+	UH	--	--	--	--	UH
37-42	EH	1/-	0.5/-	--	--	EH
31-36	VH	2/-	1/-	--	--	VH
25-30	HI	2.5/3.5	1.5/2.0	0.5/1.0	--	HI
19-24	MH	3.5/4.5	2.5/3.0	1.0/1.5	--	MH
13-18	ML	4/5	2.5/3.5	--	--	ML
7-12	LO	4/5	2.5/3.5	--	--	LO
1-6	VL	4/5	2.5/3.5	--	--	VL
Banking FPs		3	4	5	7	
Side Slip FPs		4	6	7	9	

NOTES AND VARIANTS

All P-38Fs: Noted for speed and range. Tempermental engines +2 for A/C malfunction rolls; -1 to Eng critical rolls at MH+. Roll for compressibility loss of control anytime listed above max. safe dive speed.

P-38F/F-1/F-5: Available June 42. First P-38s to carry drop tanks. F-5s had desert equipment. 377 built.

P-38F-15: Available August 1942. Sent to Europe, where they were transferred to Operation Torch in North Africa in Nov 42. Used in New Guinea starting in December, 1942. Combat flaps usable at <160 mph. 241 built.

F-4A recon: Unarmed P-38F. usually used unescorted. 20 built.

125-gal FT: Wgt: 1,000 lb Ld: 4.5/3.5 End: +130 each
62.5 gal FT: Wgt: 500 lb Ld: 2.5/1.5 End: +60 each

Lockheed P-38G-10 Lightning

Country: USA

Service Entry Date: January 1943

A/C Type: Long-range fighter bomber
 Engine(s): Two Allison V-1710-57/59 inline
 Eng. Pwr: 2300-2650 hp, liquid-cooled
 A/C Crew: Pilot

Maximum Speed: 400 mph at 25,900 ft
 Maximum Ceiling: 39,000 ft.

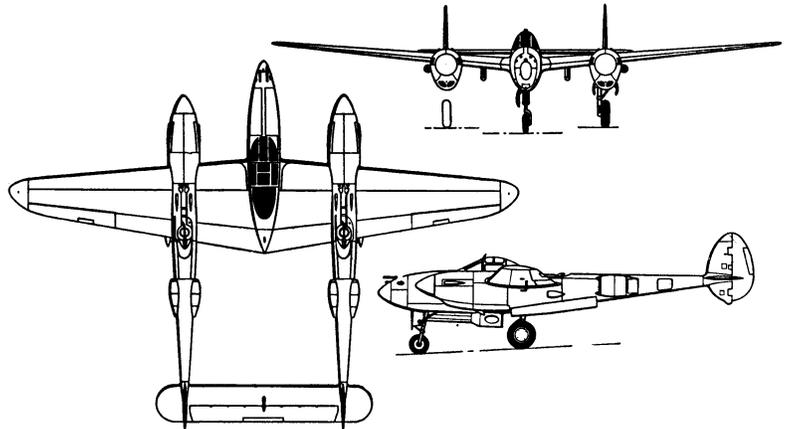
Defense factor: 5 Size Modifier: +0
 Damage Factor: 13/19 Endurance: 233
 Cockpit View: Fair Blind Area: Rear, Low

Protection: Cockpit +2 Fuel +2 Engine +0

Climb Decel/ Dive Accel: 3.0 / 1.0

Weight and Load Limit: 3,200 / 3-14

Wpn Stations Weight Allowed Loads
 1,2 1600 lbs 1 bomb to 1600 lb
 1 torpedo or
 3x M10 rkts
 1x 125-gal FT



Class: F

Victory Points: 7-13

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(5)	Min HT(6)	Min BT(8)	Min ET(9)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	4.0	7.0	9.5	5.5	7.5	8.5	10.0	37-42	EH	800
31-36	VH	3.5	7.5	10.0	5.0	6.5	8.0	9.0	31-36	VH	1,500
25-30	HI	3.0	8.0	10.0	4.5	6.0	7.0	8.0	25-30	HI	2,000
19-24	MH	2.5	8.0	10.5	4.0	5.5	6.5	7.5	19-24	MH	2,200
13-18	ML	2.5	7.5	10.0	3.5	5.0	6.0	7.0	13-18	ML	2,400
7-12	LO	2.0	7.0	10.0	3.0	4.5	5.5	6.0	7-12	LO	2,500
1-6	VL	2.0	7.0	9.5	3.0	4.0	5.0	6.0	1-6	VL	2,800

FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One 20mm Hisp. Sz. M1	5	2
N2	Two .50 cal M2 mg	18	3
N3	Two .50 cal M2 mg	18	3

GUN ATTACK FACTORS

Range	N1	N2	N3	Total
0	18	18	18	54
1	12	13	13	38
2	8	9	9	26
3	6	6	6	18
4	4	4	4	12
5	3	3	3	9
6	2	2	2	6
7	--	--	--	--

WEAPON STATION LOCATION



POWER VERSUS SPEED CHART

Levels	Bands	(per engine)				Band
		1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0+	
43+	UH	--	--	--	--	UH
37-42	EH	1/-	0.5/-	--	--	EH
31-36	VH	2/-	1/-	--	--	VH
25-30	HI	3.0/4.0	2.0/2.5	1.0/1.5	--	HI
19-24	MH	3.5/4.5	2.5/3.0	1.5/2.0	--	MH
13-18	ML	4/5	2.5/3.5	--	--	ML
7-12	LO	4/5	2.5/3.5	--	--	LO
1-6	VL	4/5	2.5/3.5	--	--	VL
Banking FPs		3	4	5	7	
Side Slip FPs		4	6	7	9	

NOTES AND VARIANTS

All P-38Gs: Tempermental engines +2 for A/C malfunction rolls; -1 to Eng critical rolls at MH+. Roll for compressibility loss of control anytime listed above max.safe dive speed. Combat flaps usable at 250 mph or less.

P-38G-3/G-5: Avail in field Jan '43. Much like the F with improved engines, oxygen system, and radio. No rockets; station limit 1000 lbs. 174 built.

P-38G-13/G15: Avail in field Jan '43. Lightning IIs refused by RAF and reworked to G-3/G15 standards. 250 built.

P-38G-10: Available in field March, 1943. Winterized version used in Alaska, plus higher bombload. 708 built.

F-5A Recon: Available March, 1943. Unarmed recon P-38G. 380 built.

125-gal FTs: Wgt: 1000 lb Ld: 4.5/3.5 End: +130 each