

ENGINES

Engine Specifications

Model	LF139F	LF152F	LF160FA	LF168FB	LF168F-2
Manufacturer	LIFAN	LIFAN	LIFAN	LIFAN	LIFAN
Engine Type	4-Stroke OHV Single Cylinder	4-Stroke OHV Single Cylinder	4-Stroke OHV Single Cylinder	4-Stroke OHV Single Cylinder	4-Stroke OHV Single Cylinder
Maximum Horsepower (MHP)	1.5MHP	2.5MHP	4MHP	5.5MHP	6.5MHP
Displacement	34.6cc	97.7cc	118cc	163cc	196cc
Bore X Stroke	39mm X 29mm	52mm X 46mm	60mm X 42mm	68mm X 45mm	68mm X 54mm
Compression Ratio	8.2:1	5.6:1	8.5:1	8.5:1	8.5:1
Engine Speed	6500 rpm	3600rpm	3600 rpm	3600 rpm	3600 rpm
Starting System (D Models Only)¹	Recoil	Recoil	Recoil (Recoil/Electric)	Recoil (Recoil/Electric)	Recoil (Recoil/Electric)
18amp Charging Sytem	N/A	N/A	Special Order Only	Special Order Only	Special Order Only
Fuel Tank Capacity	0.171 Gallons	0.37 Gallons	0.66 Gallons	0.95 Gallons	0.95 Gallons
Fuel Type	90 Octane Gasoline	87 Octane Gasoline	87 Octane Gasoline	87 Octane Gasoline	87 Octane Gasoline
Engine Oil Type & Amount	SAE 10w30w 4oz.	SAE 10w30w 12oz.	SAE 10w30w 20oz	SAE 10w30w 20oz	SAE 10w30w 20oz
Low Oil Shutoff Protection	Yes	Yes	Yes	Yes	Yes
CARB Certified	(-CA) Models Only	(-CA) Models Only	(-CA) Models Only	(-CA) Models Only	(-CA) Models Only

Horizontal Output Shaft Options

Keyway (Q Models) Diameter		15 mm	0.75 in	0.75 in	0.75 in
Threaded (P Models) Diameter	Special Order Only	Special Order Only	Special Order Only	Special Order Only	Special Order Only
Threaded (T Models) Diameter	Special Order Only	Special Order Only	Special Order Only	Special Order Only	5/8 in (18x1.25 Thread)
Threaded (W Models) Diameter	Special Order Only	Special Order Only	Special Order Only	Special Order Only	20 mm
Tapered (13111 Models) Diameter	Special Order Only	Special Order Only	Special Order Only	Special Order Only	Generator Engine
2:1 Clutch Reduction (R Model) Diameter	Special Order Only	Special Order Only	Special Order Only	Special Order Only	20mm
6:1 Gear Reduction (H Model) Diameter	Special Order Only	Special Order Only	0.75 in	Special Order Only	0.75 in

Horizontal Keyway Output Shaft Dimensions

Length X Width X Height (inches)	20in X 19in X 18in	16in X 15in X 14in	16in X 15in X 16in	16in X 15in X 16in
Dry Weight	68 lbs	32.5 lbs	38 lbs	39 lbs

Legend

Dimensions given are for "Q" Models only. Other Engine options may cause dimensions to vary.

¹ = Only "D" Models have Recoil & Electric Start

LF168F-2-13111 = 6.5MHP Horizontal Tapered Output Shaft

LF168F-2Q = 6.5MHP Horizontal Keyway Output Shaft

LF168F-2R = 6.5MHP with 2:1 Clutch Reduction

LF177FP = 9MHP Horizontal Threaded Output Shaft

LF168F-2H = 6.5MHP with 6:1 Gear Reduction



- Industrial Grade OHV Engines
- CARB Certified Available
- EPA Certified
- Quiet
- Dependable Performance
- Horizontal Shafts
- 1 Year Commercial Warranty

ENGINES

Engine Specifications

Model	LF170	LF173F	LF177F	LF182F	LF188F
Manufacturer	LIFAN	LIFAN	LIFAN	LIFAN	LIFAN
Engine Type	4-Stroke OHV Single Cylinder				
Maximum Horsepower (MHP)	7MHP	8MHP	9MHP	11MHP	13MHP
Displacement	212cc	242cc	270cc	337cc	389cc
Bore X Stroke	70mm x 55mm	72mm X 58mm	77mm X 58mm	82mm X 64mm	88mm X 64mm
Compression Ratio	8.5:1	8.2:1	8.2:1	8.0:1	8.0:1
Engine Speed	3600 rpm	3600rpm	3600rpm	3600rpm	3600rpm
Starting System (D Models Only)¹	Recoil (Recoil/Electric)	Recoil (Recoil/Electric)	Recoil (Recoil/Electric)	Recoil (Recoil/Electric)	Recoil (Recoil/Electric)
18amp Charging System	Special Order Only	Special Order Only	Special Order Only	Special Order Only	Special Order Only
Fuel Tank Capacity	0.95 Gallons	1.586 Gallons	1.585 Gallons	1.717 Gallons	1.717 Gallons
Fuel Type	87 Octane Gasoline				
Engine Oil Type & Amount	SAE 10w30w 20oz. SAE 10w30w 32oz. SAE 10w30w 32oz. SAE 10w30w 32oz. SAE 10w30w 32oz.				
Low Oil Shutoff Protection	Yes	Yes	Yes	Yes	Yes
CARB Certified	(-CA) Models Only (-CA) Models Only (-CA) Models Only (-CA) Models Only (-CA) Models Only				

Horizontal Output Shaft Options

Keyway (Q Models) Diameter	Special Order Only	Special Order Only	1 in	Special Order Only	1 in
Threaded (P Models) Diameter	Special Order Only	Special Order Only	1 in (1-14nF Thread)	Special Order Only	1 in (1-14 nF Thread)
Threaded (T Models) Diameter	Special Order Only	Special Order Only	Special Order Only	Special Order Only	Special Order Only
Threaded (W Models) Diameter	Special Order Only	Special Order Only	Special Order Only	Special Order Only	Special Order Only
Tapered (13111 Models) Diameter	Special Order Only	Special Order Only	Special Order Only	Special Order Only	Generator Engine
2:1 Clutch Reduction (R Model) Diameter	Special Order Only	Special Order Only	1 in	Special Order Only	Special Order Only
6:1 Gear Reduction (H Model) Diameter	Special Order Only	1 in	1 in	Special Order Only	Special Order Only

Horizontal Keyway Output Shaft Dimensions

Length X Width X Height (inches)	16in X 15in X 16in	20in X 19in X 18in	20in X 19in X 18in	17in X 19in X 20in	17in X 19in X 20in
Dry Weight	38 lbs	68 lbs	60 lbs	71 lbs	73 lbs

Legend

Dimensions given are for "Q" Models only. Other Engine options may cause dimensions to vary.

¹ = Only "D" Models have Recoil & Electric Start

LF168F-2Q = 6.5MHP Horizontal Keyway Output Shaft

LF177FP = 9MHP Horizontal Threaded Output Shaft

LF168F-2-13111 = 6.5MHP Horizontal Tapered Output Shaft

LF168F-2R = 6.5MHP with 2:1 Clutch Reduction

LF168F-2H = 6.5MHP with 6:1 Gear Reduction



LF177FB



LF188FB

ENGINES

Engine Specifications

Model	LF190F	LF2V78F
Manufacturer	LIFAN	LIFAN
Engine Type	4-Stroke OHV Single Cylinder	4-Stroke V-Twin
Maximum Horsepower (MHP)	15MHP	22MHP
Displacement	420cc	688cc
Bore X Stroke	90mm X 66mm	78mm X 72mm
Compression Ratio	8.2:1	8.5:1
Engine Speed	3600rpm	3600 rpm
Starting System (D Models Only) ¹	Recoil (Recoil/Electric)	Electric
18amp Charging Sytem	(-C) Models Only	(-C) Models Only
Fuel Tank Capacity	1.717 Gallons	External Fuel Tank Required
Fuel Type	87 Octane Gasoline	87 Octane Gasoline
Engine Oil Type & Amount	SAE 10w30w 32oz.	SAE 10w30w 47oz.
Low Oil Shutoff Protection	Yes	Yes
CARB Certified	(-CA) Models Only	(-CA) Models Only

Horizontal Output Shaft Options

Keyway (Q Models) Diameter	1 in	N/A
Keyway (S Models) Diameter	N/A	1 in
Keyway (T Models) Diameter	N/A	1.125 in
Threaded (P Models) Diameter	Special Order Only	Special Order Only
Threaded (T Models) Diameter	Special Order Only	Special Order Only
Threaded (W Models) Diameter	Special Order Only	Special Order Only
Tapered (13111 Models) Diameter	Generator Engine	Special Order Only
2:1 Clutch Reduction (R Model) Diameter	Special Order Only	Special Order Only
6:1 Gear Reduction (H Model) Diameter	Special Order Only	Special Order Only

Horizontal Keyway Output Shaft Dimensions

Length X Width X Height (inches)	17in X 19in X 20in	16in X 18in X 18in
Dry Weight	74 lbs	102.5 lbs

Legend

Dimensions given are for "Q" Models only. Other Engine options may cause dimensions to vary.

¹ = Only "D" Models have Recoil & Electric Start LF168F-2-13111 = 6.5MHP Horizontal Tapered Output Shaft

LF168F-2Q = 6.5MHP Horizontal Keyway Output Shaft LF168F-2R = 6.5MHP with 2:1 Clutch Reduction

LF177FP = 9MHP Horizontal Threaded Output Shaft LF168F-2H = 6.5MHP with 6:1 Gear Reduction

LIFAN Power USA offers Horizontal Output Shaft Engines ranging from 1.5 Maximum Horsepower to 22 Maximum Horsepower V-Twin Engine. Our engines can be equipped with keyway, threaded, and tapered output shafts. We also offer multiple features including 18-22amp charging system, Electric Start, 2:1 Clutch Reduction, and 6:1 Gear Reduction!



LF2V78F