



ISO9001:2000 Certificate  
of quality control system

- ★ GASOLINE ENGINE ★
- ★ GENERATOR ★
- ★ WATER PUMP ★
- ★ LAWN MOWER ★

Chongqing Loncin General-purpose Engine Co.,Ltd.

## WATER PUMP

# WATER PUMP

- Reliable performance, environmental protection, powerful.
- High efficiency, up-to-date design pump.
- One year warranty.



**LC50ZB23-3.1Q** (2")



**LC80ZB20-3.1Q** (3")



**LC50ZB23-3.1QA** (2")



**LC80ZB20-3.1QA** (3")

Type	LC50ZB23-3.1Q	LC80ZB20-3.1Q	LC50ZB23-3.1QA	LC80ZB20-3.1QA
Body size(L×W×H)(mm)	550×430×385	550×430×465	435×385×385	515×420×450
Assembly weight(kg)	24	29	23	28
Lift(m)	23	20	23	20
Suction(m)	8	8	8	8
Flowing volume(L/min)	520	860	520	860
Continuous time(H)	2.5			
Engine type	LC168F-1			
Rated power(kW/rpm)	5(3.7)/3600			
Displacement(cc)	163			
Fuel tank capacity(L)	3.6			
Oil capacity(L)	0.6			
Fuel consumption(g/kWh)	<395			
Starting system	Recoil start			
Engine model	OHV25°Tilt, Single cylinder, Forced air cooling, 4-Stroke			

# GENERATOR



**LC6500S** (Power Quality)

Item	Generator set type	LC3800S		LC5000S		LC6500S	
Generator Set	Rated frequency(Hz)	50	60	50	60	50	60
	Rated power(kW)	2.8		4		5	
	Rated voltage(V)	230/110 240/120		230/110 240/120		230/110 240/120	
	Rated speed(r/min)	3000		3000		3000	
	Phase	Single phase		Single phase		Single phase	
	Power factor(cos φ)	1		1		1	
	DC output	12V/8.3A		12V/8.3A		12V/8.3A	
	Generator type	Rectifying permanent magnet inversion type generator		Rectifying permanent magnet inversion type generator		Rectifying permanent magnet inversion type generator	
	Structure	Noise absorption box type		Noise absorption box type		Noise absorption box type	
	Excitation system	Permanent magnet self excitation		Permanent magnet self excitation		Permanent magnet self excitation	
	Steady state voltage adjustment rate	±1%		±1%		±1%	
	Voltage stable time	±10%		±10%		±10%	
	Voltage fluctuation rate	3%		3%		3%	
	Transient state frequency adjustment rate	0.50%		0.50%		0.50%	
	Steady state frequency change	±0.1Hz		±0.1Hz		±0.1Hz	
	Frequency fluctuation rate	±0.1Hz		±0.1Hz		±0.1Hz	
	Frequency stable time	1%		1%		1%	
Operation capacity	12-hour continuous operation		12-hour continuous operation		12-hour continuous operation		
Noise(7m dB(A))	58		58		58		
Gross weight	65		65		65		
Dimension(L×W×H)(mm)	417×470×494		392×470×494		417×470×494 392×470×494		
Model	LC173FD		LC183FD		LC188FD		
Engine	Type	Single cylinder four stroke, air-cooling, top mounting sigma type and gasoline engine		Single cylinder four stroke, air-cooling, top mounting sigma type and gasoline engine		Single cylinder four stroke, air-cooling, top mounting sigma type and gasoline engine	
	Bore×Stroke(mm)	73×58		82×64		88×64	
	Displacement(cc)	240		340		330	
	Rated power(kW/rpm)	5.1/3000		7.0/3000		8.3/3000	
	Fuel	90# vehicle use lead-less gasoline		93# vehicle use lead-less gasoline		90# vehicle use lead-less gasoline	
	Lubrication oil	Four stroke excellent quality engine oil or motorcycle machinery oil SAE 10 W-30		Four stroke excellent quality engine oil or motorcycle machinery oil SAE 10 W-30		Four stroke excellent quality engine oil or motorcycle machinery oil SAE 10 W-30	
	Starting system	12V electric start		12V electric start		12V electric start	

Item	Type	LCW190	LCW190D	LCW190DR
Generator	Generator type	Synchronous Generator		
	Phase	Single		
	Rated speed(rpm)	3000		
	Rated output(kW)	2		
Welding	Rated voltage AC(V)	220		
	Max output(kW)	2.2		
	Rated frequency(Hz)	50		
	Duty	5:1		
Engine	Insulation class	F		
	Rated output(kW)	3.64		
	Rated current(A)	140		
	Range of current adjust(A)	50-180		
	Rated voltage DC(V)	28		
	Duty %	10min		
	Dia of welding rod(mm)	2.5-5.0		
	Engine model	LC188FW	LC188FD	
	Bore×Stroke(mm)	88×64		
	Displacement(cc)	359		
Generator Set	Compression ratio	8.5:1		
	Max output(kW/rpm)	9		
	Rated output(kW/rpm)	8.3		
	Max torque(N.m/rpm)	26.5/2500		
	Ignition system	T.C.I		
	Starting system	Hand	Hand/Electric	Hand/Electric/Remote
	Oil capacity(L)	1.1		
	Min fuel consumption(g/kWh)	2.7		
	Air cleaner	Semi-dry Oil bath, Foam Filter Element		
	Engine type	OHV,Tilt,Single Cylinder,Forced air cooling,4-Stroke		
Standard collocate	Large Size Air Cleaner, Large Size Muffler, Large Size Fuel Tank, Voltmeter, Non-fuse Breaker			
Protect class	IP21			
Fuel tank capacity(L)	25			
Continuous run time(h)	8			
Vibration	Swing:0.5mm			
Dimension(L×W×H)(mm)	678×511×490			



**LCW190** (Welding & Generator)

# GENERATOR

## LC650GF



## LC650GFDC



Item	Type	LC650GF	LC650GFDC	LC950GF	LC950GFDC
Generator	Generator type		Synchronous Generator		
	Voltage adjusting mode		Compensate		
	Electric capacity		12 × 7		
	Phase		Single phase		
	Rated speed (rpm)		3000/3600		
	Rated power (kW)	0.45		0.65	
	Rated voltage (V)		220V		
	Max. Power (kW)	0.85		0.95	
	Efficiency (%)		≥ 75		
	Power factor (COSφ)		1		
	Rated frequency (Hz)		50/60		
	Insulation class		F		
	Engine	Engine model		LCR43F-I	
Bore × Stroke (mm)			45 × 40		
Displacement (cc)			53.8		
Max. Power (kW/rpm)			1.5kW/3600		
Rated Power (kW/rpm)			1.2kW/3600		
Max. Torque (N · m/rpm)			4.56/2500		
Ignition system			T.C.I.		
Starting system			Recoil start		
Fuel mixing ratio			50 : 1		
Fuel consumption (g/kWh)			≤ 440		
Air cleaner			Foam Filter Element		
Engine type			Single cylinder, Forced air cooling, 2-Stroke		
Generator Set		Charging voltage (DC) (V)	7	12	7
	Fuel tank capacity (L)		4		8.1
	Continuing time (hr)	10.5			8.1
	Noise/Away from 7 meters (dB(A))		50		
	Vibration		Swing ≤ 0.5mm		
	Dimension (L × W × H) (mm)		400 × 350 × 345		
Dry weight (kg)		15		21	



## LC950GF



## LC950GFDC

# GENERATOR



LC1800DC



LC1800DDC



LC2500DC



LC2500DDC



LC3800DC



LC3800DDC



LC5000DC



LC5000DDC



LC6500DC



LC6500DDC

# GENERATOR

## GENERATOR

- ☞ With plenty of patents
- ☞ AC/DC output
- ☞ Adoption of mazlo alloy

### Generator Set Specification

Item	LC1800DC	LC18000DC	LC2500DC	LC25000DC	LC3800DC	LC38000DC	LC5000DC	LC50000DC	LC8500DC	LC85000DC
Engine type	LC188F-1	LC188FD-1	LC188F-2	LC188FD-2	LC173F	LC173FD	LC182F	LC182FD	LC188F	LC188FD
Engine model	Single cylinder, Forced Air Cooling 4-Stroke									
Displacement(cc)	163		196		242		337		389	
Rated power(kW/3000rpm)	3.1		3.8		5.1		7		8.3	
Ignition system	T.C.I									
Starting system	Recoil start	Recoil/Electric start	Recoil start	Recoil/Electric start	Recoil start	Recoil/Electric start	Recoil start	Recoil/Electric start	Recoil start	Recoil/Electric start
Fuel tank capacity(L)	15					25				
Fuel consumption(L/hr)	0.92		1.22		1.9		2.45		2.7	
Continuing time(hr)	16		13		13		10		9	
Oil capacity(L)	0.6					1.1				
Noise/away from 7 meters(dBA)	63		65		69		72		74	
Charging voltage(V)	12(DC)									
Charging current(A)	8.3									
Rated frequency(Hz)	50/60									
Rated voltage(V)	110/220/230/240									
Rated output(kW)	1.3		2		2.8		4		5	
Maximum output(kW)	1.5		2.2		3.1		4.5		5.5	
Length(mm)	590	590/770	590	590/770	680	680/855	680	680/855	680	680/855
Width(mm)	475					540				
Height(mm)	460					550				
Dry weight(kg)	42	46	45	49	68	72	82	86	86	90
Usual Accessory	Large size air cleaner	•	•	•	•	•	•	•	•	•
Large size muffler	•	•	•	•	•	•	•	•	•	•
Large size fuel tank	•	•	•	•	•	•	•	•	•	•
Fuel gauge	•	•	•	•	•	•	•	•	•	•
Voltmeter	•	•	•	•	•	•	•	•	•	•
Automatic voltage regulator	•	•	•	•	•	•	•	•	•	•
Oil alarming system	•	•	•	•	•	•	•	•	•	•
Non-fuse breaker	•	•	•	•	•	•	•	•	•	•
Battery holder	-	•	-	•	-	•	-	•	-	•
Optional Accessory	Four wheel vehicle set	•	•	•	•	•	•	•	•	•

Remarks: • Means available - Means unavailable

# GENERATOR



LCL3GF(D)



LCL3GF-1



LCL3GF(D)-2



LC2GF(D)



LC2GF-1



LC2GF(D)-2



LC2.8GF



LC2.8GFD



LC4GF



LC4GFD



LC5GF



LC5GFD



LC5GF-1



LC5GFD-1

# WATER PUMP



**LC50ZB30-2Q (2")**



**LC50ZB30-2QA (2")**

Type	LC50ZB30-2Q	LC50ZB30-2QA
Body size(L×W×H)(mm)	390×365×404	400×365×415
Assembly weight(kg)	12.5	13
Lift(m)		30
Suction(m)		5
Flowing volume(L/min)		400
Continuous time(Hr)		2.5
Engine type		LC1E45F-2
Max power(kWh/min)		2.0/5600
Displacement(cc)		63.6
Fuel tank capacity(L)		0.65
Fuel consumption(g/kWh)		≤440
Starting system		Recoil start
Seal model		Graphite and ceramics for mechanical seal



**LC80WB30-4.5Q (3")**



**LC100ZB30-5.5Q (4")**

Type	LC80WB30-4.5Q	LC100ZB30-5.5Q
Dry weight(kg)	36	52
Lift(m)		30
Suction(m)		8
Max. flow rate(m <sup>3</sup> /h)	78	98
Diameter of inlet port of water(mm)	80	100
Engine mode	OHV25°Tilt,Single cylinder, Forced air cooling,4-Stroke	
Bore × Stroke(mm)	68×54	73×58
Displacement(cc)	196	242
Compression ratio	8.5 : 1	8.2 : 1
Power(HP/rpm)	6.5/3600	8/3600
Max.torque(N·m/rpm)	12/2500	16.6/2500
Fuel tank capacity(L)	3.6	6
Oil capacity(L)	0.6	1

# GENERATOR

## GENERATOR

### ENGINE

Reliable performance, environmental protection, powerful.

### AUTOMATIC VOLTAGE REGULATOR

Automatically keep stable voltage to ensure stable power when increasing load.

### OIL ALARMING SYSTEM

Automatically stop the engine when oil level is too low.

### VOLTMETER

Easy to find the output voltage.

### MUFFLER

Unique large-size muffler, reduce the noise to the lowest level.

### FUEL GAUGE

Remind filling fuel timely.

## Generator Set Specification

Item	LC130F	LC130FD	LC130F-1	LC130F-2	LC130FD-1	LC130FD-2	LC20F	LC20FD	LC20F-1	LC20F-2	LC20FD-1	LC20FD-2	LC30F	LC30FD	LC30F-1	LC30F-2	LC30FD-1	LC30FD-2	LC40F	LC40FD	LC40F-1	LC40F-2	LC40FD-1	LC40FD-2	LC50F	LC50FD	LC50F-1	LC50F-2	LC50FD-1	LC50FD-2		
Engine type	LC130F-1	LC130FD-1	LC130F-1	LC130F-1	LC130FD-1	LC130FD-1	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2	LC130F-2	LC130FD-2		
Engine model	OHV 90° angle cylinder, Forced Air cooling, 4-stroke																															
Displacement(cc)	903																100															
Rated power(kW/gp)	3.1																3.8															
Ignition system	T.C.I.																															
Starting system	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	Revolvers	
Fuel tank capacity(L)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Fuel consumption(L/hr)	0.82																1.02															
Continuing Time(hr)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
Oil capacity(L)	0.8																1.1															
Intake filter 7 need(L)	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
Rated frequency(Hz)	50/60																															
Rated voltage(V)	110/220																120/240															
Rated output(kW)	1.3																2															
Maximum output(kW)	1.5																2.2															
Length(mm)	600	690/775	660	690	690/775	690	690/775	690	690	690/775	690	690/775	690	690/825	690	690/825	690	690/825	690	690/825	690	690/825	690	690/825	690	690/825	690	690/825	690	690/825		
Width(mm)	430																510															
Height(mm)	430																540															
Dry weight(kg)	40.5	44.5	42.5	45.5	45.5	45	49	49	49	49	44	44	55	72	75	52	52	50	54	55	55	55	55	55	55	55	55	55	55	55		
Large size air cleaner	●	●	—	—	—	●	●	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Large size muffler	●	●	—	—	—	●	●	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Large size fuel tank	●	●	—	—	—	●	●	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Fuel gauge	●	●	—	—	—	●	●	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Voltmeter	●	●	—	—	—	●	●	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Automatic voltage regulator	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Oil alarming system	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Non-fuse breaker	●	●	—	—	—	●	●	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Circuit protector	—	—	●	—	—	—	—	—	—	—	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Battery holder	—	—	—	—	—	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Four wheel vehicle set	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

Remarks: ● Standard equipment — optional equipment