

PRODUCT CATALOGUE



WECHAT OFFICIAL ACCOUNT

JIANGSU CHANGFA AGRICULTURAL EQUIPMENT CO.,LTD

 Add: No.555, Wujin Avenue, Wujin District, Changzhou City, China

 Tel:0086 519 86237001

 Website: www.changfanz.com

 Email: sales@changfa.com



• DIESEL ENGINE • WATER PUMP
• GENERATOR

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ABOUT CHANGFA GROUP

CHANGFA group, established in 2001, a large integrated enterprise engaged in internal combustion engine, agricultural equipment, refrigeration and real estate development.

ABOUT CHANGFA PRODUCTION

The core team is composed of famous technicians and managers, with leading design ability and rich working experience in the field of internal combustion engine, electricity and electronic.

ADVANTAGE

advanced equipment
manufacturing system

PRODUCTION

complete research and
development innovation system

R&D

MARKET

integrated sales and
service network system



Changfa air-cooled diesel engines are characterized by advanced structure, easy starting, fast acceleration and long service life.

Easy starting

Top brand clearance plunger, high compression ratio, which makes it's easy to start engine smoothly below -10°C.

Low noise and stable

New structure designed muffler, makes the noise lower and exhaust friction smaller.

Various application

Optional output crankshaft type, fit for different use conditions.

Low fuel consumption

New type fuel injection system and combustion system ensure maximum power from every drop of diesel and minimize exhaust of waste gas.

DIESEL ENGINE

CF186FA(E)



PERFORMANCE PARAMETER

Model	Unit	CF170F(E)	CF178F(E)	CF186FA(E)
Type	/	Single cylinder, vertical, 4-stroke, air-cooled	Single cylinder, vertical, 4-stroke, air-cooled	Single cylinder, vertical, 4-stroke, air-cooled
Combustion System	/	Direct Injection	Direct Injection	Direct Injection
Bore*Stroke	mm	70*55	78*62	86*72
Displacement capacity	cc	211	296	418
Speed	rpm	3000/3600	3000/3600	3000/3600
Rated power	kW	2.5/2.8	3.68/4.0	5.7/6.6
Rated power	Hp	3.4/3.8	5.0/5.5	7.7/9.0
Starting system	/	F: Recoil starter E: Electric starter	F: Recoil starter E: Electric starter	F: Recoil starter E: Electric starter
Fuel tank volume	L	2.5	3.5	5.5
Lubrication oil volume	L	0.75	1.1	1.65
Fuel consumption	g/kW.h	3000rpm: 280 3600rpm: 288	3000rpm: 276 3600rpm: 285	3000rpm: 275 3600rpm: 281
Fuel	/	0# or-10# light diesel oil	0# or-10# light diesel oil	0# or-10# light diesel oil
Dimension	mm	410*380*460	480*470*515	500*470*550
Gross weight	kg	Recoil starter type: 27 Electric starter type: 33	Recoil starter type: 36 Electric starter type: 42	Recoil starter type: 49 Electric starter type: 54
Rotation direction	/	Clockwise	Clockwise	Clockwise

DIESEL ENGINE

CF188F(E)



DIESEL ENGINE

CF195F(E)



PERFORMANCE PARAMETER

Model	Unit	CF188F(E)	CF192F(E)
Type	/	Single cylinder, vertical, 4-stroke, air-cooled	Single cylinder, vertical, 4-stroke, air-cooled
Combustion System	/	Direct Injection	Direct Injection
Bore*Stroke	mm	88*75	92*75
Displacement capacity	cc	456	498
Speed	rpm	3000/3600	3000/3600
Rated power	kW	6.9/7.5	7.5/8.3
Rated power	Hp	9.4/10.2	10.2/11.3
Starting system	/	F: Recoil starter E: Electric starter	F: Recoil starter E: Electric starter
Fuel tank volume	L	5.5	5.5
Lubricatiom oil volume	L	1.65	1.65
Fuel consumption	g/kW.h	3000rpm: 275 3600rpm: 281	3000rpm: 270 3600rpm: 276
Fuel	/	0# or-10# light diesel oil	0# or-10# light diesel oil
Dimension	mm	500*470*550	500*480*550
Gross weight	kg	Recoil starter type: 49 Electric starter type: 54	Recoil starter type: 51 Electric starter type: 56
Rotation direction	/	Clockwise	Clockwise

PERFORMANCE PARAMETER

Model	Unit	CF195F(E)	CF1102FE
Type	/	Single cylinder, vertical, 4-stroke, air-cooled	Single cylinder, vertical, 4-stroke, air-cooled
Combustion System	/	Direct Injection	Direct Injection
Bore*Stroke	mm	95*75	102*80
Displacement capacity	cc	532	654
Speed	rpm	3000/3600	3000
Rated power	kW	8.2/8.8	9.0
Rated power	Hp	11.1/12	12.2
Starting system	/	F: Recoil starter E: Electric starter	E: Electric starter
Fuel tank volume	L	5.5	5.5
Lubricatiom oil volume	L	1.65	1.65
Fuel consumption	g/kW.h	3000rpm: 270 3600rpm: 276	3000rpm: 268 3600rpm: 272
Fuel	/	0# or-10# light diesel oil	0# or-10# light diesel oil
Dimension	mm	500*480*550	525*490*595
Gross weight	kg	Recoil starter type: 51 Electric starter type: 56	62
Rotation direction	/	Clockwise	Clockwise



Changfa diesel water pumps are characterized by efficient suction performance, high flow capacity, light and portable, widely used for agriculture, fishing ground and flood rescue.

Easy to move

Light weight makes it easy to move from one working place to another.

Low fuel consumption

Power by Changfa air cooled diesel engine,ensure low fuel consumption.

Stable performance

Anti-cracking aluminum casting pump body, qualified mechanical seal device.

High efficiency

Short self-priming time and high head of delivery.

Diesel Water pump

CFWD100LE General type



PERFORMANCE PARAMETER

Model	Unit	CFWD50C/L(E)	CFWD80C/L(E)	CFWD100C/L(E)
Suction/discharge port diameter	mm(in)	50(2")	80(3")	100(4")
Cont.capacity	L/min	600	1000	1600
Cont.head	m	18	19	21
Self-priming time	s/m	70	120	180
Max suction head	m	8	8	8
Engine model	/	CF170(E)	CF178(E)	CF186A(E)
Type	/	Single cylinder, vertical, 4-stroke air-cooled diesel engine	Single cylinder, vertical, 4-stroke air-cooled diesel engine	Single cylinder, vertical, 4-stroke air-cooled diesel engine
Speed	rpm	3600	3600	3600
Rated power	kW	2.8	4	6.6
Bore×Stroke	mm	70×55	78×62	86×72
Displacement capacity	cc	211	296	418
Lubrication oil volume	L	0.75	1.1	1.65
Start system	/	C:Small fuel tank L:Recoil start,large fuel tank E:Electric start X:High pressure type		
Gross weight	kg	43/49(55)	55/58(67)	75/77(87)
Overall dimension(L*W*H)	mm	C: 520*465*535 L(E): 555*490*680	C: 605*465*610 L(E): 635*490*680	C: 670*510*655 L(E): 670*510*730

Diesel Water pump

CFWD50XL High-pressure type



PERFORMANCE PARAMETER

Model	Unit	CFWD40XL(E)	CFWD50XL(E)	CFWD80XL(E)
Suction/discharge port diameter	mm(in)	40(1.5")	50(2")	80 (3")
Cont.capacity	L/min	400	600	600
Cont.head	m	45	60	60
Self-priming time	s/m	120	180	200
Max suction head	m	6	6	8
Engine model	/	CF178(E)	CF186FA(E)	CF188F(E)
Type	/	Single cylinder, vertical, 4-stroke, air-cooled diesel engine		
Speed	rpm	3600	3600	3600
Rated power	kW	4	6.6	7.5
Bore×Stroke	mm	78*62	86*72	88*75
Displacement capacity	cc	296	418	456
Lubrication oil volume	L	1.1	1.65	1.65
Start system	/	L:Recoil start,large fuel tank E:Electric start X:High pressure type		
Gross weight	kg	56 (63)	74 (83)	75 (81)
Overall dimension(L*W*H)	mm	635*490*680	670*510*730	670*510*730



Changfa open frame diesel generators are characterized by advanced technology, reliable quality and customized service.

Changfa silent diesel generators are characterized by excellent noise reduction design, offer you a better green production and quiet life.



100% copper alternator

Good quality 100% copper alternator offer stable and reliable performance.



Self-Protect system

Emergency low oil shutdown system is equipped for X and silent type for protecting the engine.



Low noise

Special designed muffler and efficient air cleaner reduce the exhaust and intake noise.



Optional panel

Special and various control panels are available for different markets demand.



Easy to move

Optional wheels and handle makes it easy to move.



Optional configuration

ATS, digital control panel, remote control, cooling fan, electric fuel injection pump and so on.

Diesel Generator

Open Frame Type

CFED2500L



PERFORMANCE PARAMETER

Model	Unit	CFED2500L/X(E)	CFED4000L/X(E)	CFED6500L/X(E)/-3
Frequency	Hz	50/60	50/60	50/60
Voltage(A.C)	V	220, 230, 240,110/220, 115/230, 120/240	220, 230, 240,110/220, 115/230, 120/240	220, 230, 240,110/220, 115/230, 120/240, 220/380, 230/400, 240/415
Rated power	kW	1.8/2.0	2.6/3.0	4.2/4.5
Max power	kW	2.0/2.2	3.0/3.3	4.5/5.0
Phase Number	/	Single-phase	Single-phase	Single-phase/Three-phase
Power factor	cosφ	1	1	1.0/0.8
Excitation Transistorized	/	Self-excitation, brushless or brush type	Self-excitation, brushless or brush type	Self-excitation, brushless or brush type
Voltage(D.C)	V	12	12	12
Insulation grade	/	F	F	F
Fuel tank capacity	L	12.5	12.5	12.5
Fuel type	/	0# or-10# light diesel oil	0# or-10# light diesel oil	0# or-10# light diesel oil
Noise level	dBA/7m	72-77	72-77	75-79
Starting system	/	E: Electric starter; X: Low oil pressure protection	E: Electric starter; X: Low oil pressure protection	E: Electric starter; X: Low oil pressure protection
Engine model	/	CF170F(E)	CF178F(E)	CF186FA(E)
Type	/	Single cylinder, vertical, 4-stroke, air-cooled diesel engine	Single cylinder, vertical, 4-stroke, air-cooled diesel engine	Single cylinder, vertical, 4-stroke, air-cooled diesel engine
Speed	rpm	3000/3600	3000/3600	3000/3600
Rated power	kW	2.5/2.8	3.68/4.0	5.7/6.6
Bore×Stroke	mm	70*55	78*62	86*72
Displacement capacity	cc	211	296	418
Lubrication oil volume	L	0.75	1.1	1.65
Start system	/	Recoil starter/Electric starter	Recoil starter/Electric starter	Recoil starter/Electric starter
Total weight	kg	L: X:66 E:79	L: X:77 E:97	L: X:95 E:114
Overall dimensions	mm	675*530*605	720*530*620	780*530*670

Diesel Generator

Open Frame Type

CFED8500XE-B



PERFORMANCE PARAMETER

Model	Unit	CFED7500L/X(E)/-3	CFED8500L/X(E)/-3
Frequency	Hz	50/60	50/60
Voltage(A.C)	V	220, 230, 240,110/220, 115/230, 120/240, 220/380, 230/400, 240/415	220, 230, 240,110/220, 115/230, 120/240, 220/380, 230/400, 240/415
Rated power	kW	5.0/5.5	6.0/6.5
Max power	kW	5.5/6.0	6.5/7.0
Phase Number	/	Single-phase/Three-phase	Single-phase/Three-phase
Power factor	cosφ	1.0/0.8	1.0/0.8
Excitation Transistorized	/	Self-excitation, brush type	Self-excitation, brush type
Voltage(D.C)	V	12	12
Insulation grade	/	F	F
Fuel tank capacity	L	12.5	12.5
Fuel type	/	0# or-10# light diesel oil	0# or-10# light diesel oil
Noise level	dBA/7m	72-77	72-77
Starting system	/	E: Electric starter; X: Low oil pressure protection; S: Silent type	E: Electric starter; X: Low oil pressure protection; S: Silent type
Engine model	/	CF188F(E)	CF192F(E)
Type	/	Single cylinder, vertical, 4-stroke, air-cooled diesel engine	Single cylinder, vertical, 4-stroke, air-cooled diesel engine
Speed	rpm	3000/3600	3000/3600
Rated power	kW	6.9/7.5	7.5/8.3
Bore×Stroke	mm	88*75	92*75
Displacement capacity	cc	456	498
Lubrication oil volume	L	1.65	1.65
Start system	/	Recoil starter/Electric starter	Recoil starter/Electric starter
Total weight	kg	L: X:118 E:138	L: X:120 E:140
Overall dimensions	mm	780*530*670	780*530*670

Diesel Generator

Silent Type

CFED6500S



PERFORMANCE PARAMETER

Model	Unit	CFED6500S(3)	CFED7500S(3)	CFED8500S(3)
Frequency	Hz	50/60	50/60	50/60
Voltage(A.C)	V	220, 230, 240, 110/220 115/230, 120/240, 220/380, 230/400, 240/415	220, 230, 240, 110/220 115/230, 120/240, 220/380, 230/400, 240/415	220, 230, 240, 110/220 115/230, 120/240, 220/380, 230/400, 240/415
Rated power	kW	4.2/4.5	5.0/5.5	6.0/6.5
Max power	kW	4.5/5.0	5.5/6.0	6.5/7.0
Phase Number	/	Single-phase/Three-phase	Single-phase/Three-phase	Single-phase/Three-phase
Power factor	cosφ	1.0/0.8	1.0/0.8	1.0/0.8
Excitation Transistorized	/	Self-excitation, brushless or brush type	Self-excitation, brush type	Self-excitation, brush type
Voltage(D.C)	V	12	12	12
Insulation grade	/	F	F	F
Fuel tank capacity	L	15	15	15
Fuel type	/	0# or-10# light diesel oil	0# or-10# light diesel oil	0# or-10# light diesel oil
Noise level	dBA/7m	70-74	70-74	70-74
Starting system	/	Electric starter	Electric starter	Electric starter
Engine model	/	CF186FAE	CF188FE	CF192FE
Type	/	Single cylinder, vertical 4-stroke, air-cooled diesel engine	Single cylinder, vertical 4-stroke, air-cooled diesel engine	Single cylinder, vertical 4-stroke, air-cooled diesel engine
Speed	rpm	3000/3600	3000/3600	3000/3600
Rated power	kW	5.7/6.6	6.9/7.5	7.5/8.3
Bore×Stroke	mm	86*72	88*75	92*75
Displacement capacity	cc	418	456	498
Lubrication oil volume	L	1.65	1.65	1.65
Start system	/	Electric starter	Electric starter	Electric starter
Total weight	kg	166	168	170
Overall dimensions	mm	950*570*750	950*570*750	950*570*750



Changfa open frame welder generators are characterized by strong welding current, high welding efficiency, and stable performance.

Self-Protect system

Emergency low oil shutdown system is equipped for protecting the engine.

Strong welding current

CHANGFA air cooled diesel engine, which offer strong welding current.

100% copper alternator

Good quality 100% copper alternator offer stable and reliable performance.

Multifunctional

Work as a welder and generator in one set.

Easy to move

Open frame design, Optional wheels and handle makes it easy to move.



Diesel Welder Generator

CFED6500WE

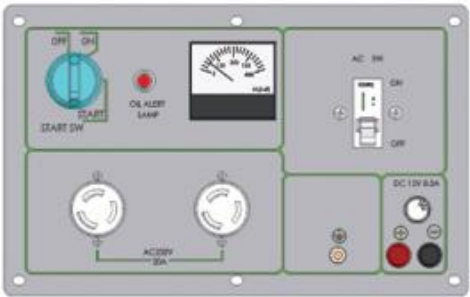


PERFORMANCE PARAMETER

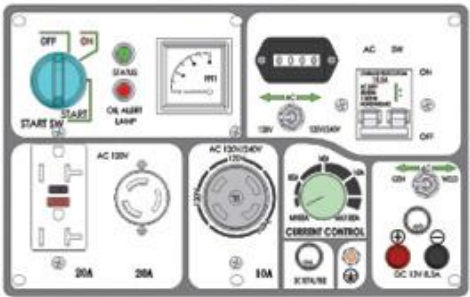
Model	Unit	CFED6500WE	CFED8500WE
Frequency	Hz	50/60	50/60
Voltage(A.C)	V	220, 230, 240,110/220, 115/230, 120/240	220, 230, 240,110/220, 115/230, 120/240
Rated current	A	8.7/9.2	8.7/9.2
Rated power	kW	2.0/2.2	2.0/2.2
Welding voltage without load	V	55-65	55-65
Welding current	A	160	200
Working voltage	V	25-30	25-30
Current regulation range	A	50-180	70-220
Welding load continuous ratio	/	0.6	0.6
Phase Number	/	Single-phase	Single-phase
Power factor	cosφ	1.0	1.0
Excitation Transistorized	/	Self-excitation, brush type	Self-excitation, brush type
Voltage(D.C)	V	12	12
Insulation grade	/	F	F
Fuel tank capacity	L	12.5	12.5
Fuel type	/	0# or-10# light diesel oil	0# or-10# light diesel oil
Noise level	dBA/7m	74-79	74-79
Starting system	/	Electric starter	Electric starter
Engine model	/	CF186FAE	CF192E
Type	/	Single cylinder, vertical, 4-stroke, air-cooled diesel engine	Single cylinder, vertical, 4-stroke, air-cooled diesel engine
Speed	rpm	3000/3600	3000/3600
Rated power	kW	5.7/6.6	7.5/8.3
Bore×Stroke	mm	86×72	92×75
Displacement capacity	cc	418	498
Lubrication oil volume	L	1.65	1.65
Start system	/	Electric starter	Electric starter
Total weight	kg	121	132
Overall dimensions	mm	780*530*670	780*530*670

Series socket & Panel

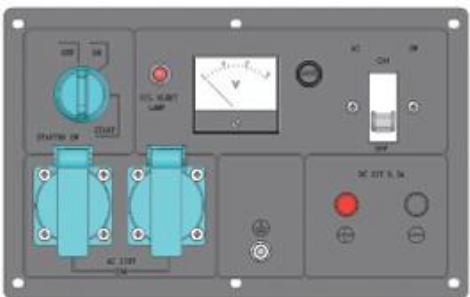
Code	Description	Specification	Picture
S01	S.A socket	25A, 250V	
S02	British socket	32A, 240V	
S03	British socket	16A, 240V	
S04	Square American type-socket	20A, 120V	
S05	Germany socket	16A, 250V	
S06	Three-phase five holes socket	16A, 415V	
S07	French socket	16A, 250V	
S08	Three-phase four holes socket	16A, 215V	
S09	American type 4-hole anti loose socket	30A, 250V	
S10	American double socket	20A, 125V	
S11	3-hole anti loose socket (UL-authentication optional)	30A, 250V	
S12	Australian socket	16A, 250V	
S13	Swiss socket	10A, 250V	



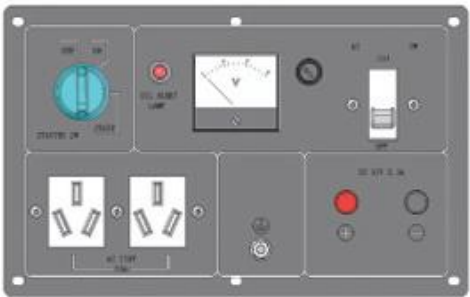
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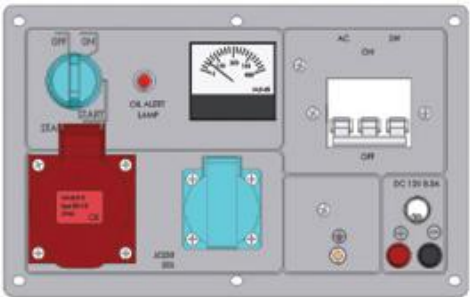
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C:type-European standard



D:type-Australia standard



Three phase panel

Changfa industrial power generators are characterized by stable CHANGFA engine and world famous Cummins engine, good quality alternator, running smoothly and silently.

■ ADVANTAGE

Digital panel

Ensure you control the generator easily and accurately.



Emergency stop

Stop the generator immediately for any emergent cases.



ATS

Control the generator automatically, it signals the generator to start automatically when the commercial power is off. Once the power is restored the ATS stop the generator automatically.



Engine

CHANGFA and Cummins.

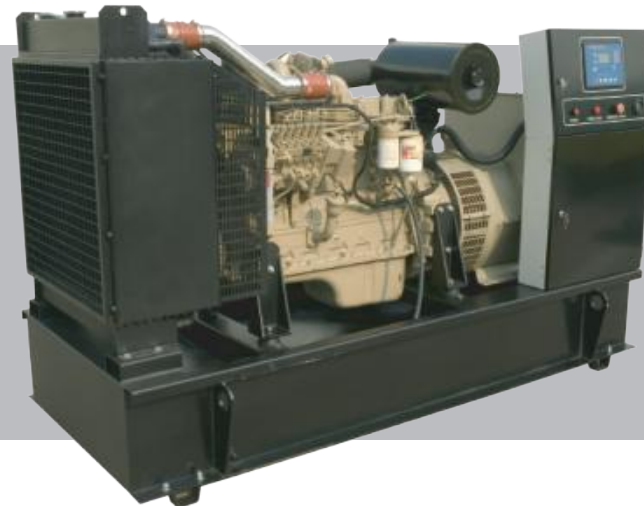


Stable performance

Special design to decrease the temperature and vibration.



Big Power Generator (50HZ)



Big Power Generator (60Hz)



PERFORMANCE PARAMETER

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PERFORMANCE PARAMETER

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