

20 KVA GENSET

Technical Data

Engine	Alternator	Generator Model
FAWDE 4DW91-38D-YFD10W	STAMFORD Desing CEG184FS	CEG-FA22S

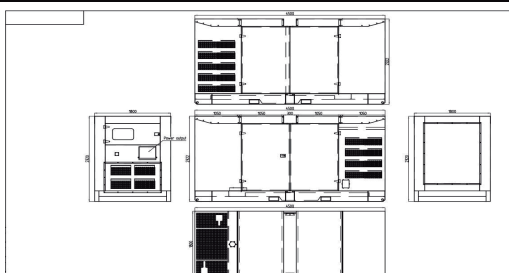
60 Hz/1800rpm	1 - Phase Factor Cos $\Phi = 1$ 3 - Phase Factor Cos $\Phi = 0.8$	Emissions N/A
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RATINGS	Prime Power (PRP)		Standby Power (ESP)		Rated Current	Fuel Consumption @100% Load
	kWe	kVA	kWe	kVA	Amps (A)	g/kW·h
Voltage (V)						
208	16	20	18	22	55.5	232.0



Key Features:

- Silent Diesel Genset, Based on **FAWDE** engine, and **STAMFORD** design alternator.
- **Support both 3-phase 208V and 1- phase 120V** (can set 3 phase or 1 phase by customer) at 60HZ 1800RPM.
- **STAMFORD** design brushless alternator 12 wire 100% copper & 100% output.
- High Quality Canopy made of **Galvanized** painted steel and 304 Stainless hinges, door locks, screws, emergency stop cover.
- Built-in **YUYE ATS** (Automatic Transfer System).
- **DEESEA** 6120 Controller, SWG accumulator, MEBAY battery charger.
- Support Ambient temperature **50 degrees Celsius**. 8 hours base fuel tank, non-return fuel valve, water drain valve, fuel drain valve. Anti-Vibration mounting.
- Emergency shutdown for all failures (low oil, high water temp, over load).
- Warranty: 1 year from installation or **1200 hours** for motor and spare parts, 2 years or 1200 hours for alternator whichever comes first.



Overall Dimension & Weight

	Open	Silent
Length (L)-mm:		2000
Width (W)-mm:		850
Height (H)-mm:		1150
Dry Weight-kg:		1175

Ratings: All three phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at 1.0 power factor.

Prime Power: Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year accordance with ISO8528-1, and an overload of 10% permitted for one hour in every twelve hours of operation in accordance with ISO 3046-1.

Standby Power Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure.

No overload available for this service as relevant alternators are peak continuous rated at 27 °C .

COMCAST ENERGY GROUP reserves the right to change the design or specifications without notice and without any obligation or liability.

STAMFORD
power generation



Basic technical data		
Engine Model		4DW91-38D
No. of cylinders		4
Cylinder arrangement		In-line
Cycle		4 stroke
Aspiration		Natural
Cooling system		Water-cooled
Bore	mm	90 mm
Stroke	mm	100 mm
Compression ratio		17:1
Displacement	L	2.54 L
Dry engine weight	kg	220 kg
Dimension (L*W*H)	mm	700*555*680
The Flywheel shell interface		SAE4-7.5"
Performance Data		
Governed Engine Speed	r/min	1800
Continuous Power without Fans	kW	28
Standby Power	kW	31
Adaptive power station (kw)	kW	22
Steady state speed regulation rate	%	5 / Mechanical 0-3 / Electronic
Emission Standards		CN Stage II
Noise Level	dB	≤108
Average effective pressure	mPa	0.73
Lubrication system		
Lubricating oil capacity	L	8
Lubricating oil consumption	L/h	≤0.03
Fuel system		
Fuel consumption PRP	kg/h	6.5
Fuel consumption Rate	g/kW·h	
25% prime power	g/kW·h	280
50% prime power	g/kW·h	255
75% prime power	g/kW·h	234
100% prime power	g/kW·h	232
100% standby power	g/kW·h	235
Air intake system		
Air consumption	m ³ /min	2
Maximum allowed intake pressure	kPa	6.3
Exhaust gas discharge	m ³ /min	5.2
Exhaust temperature	℃	500
(exhaust gas after turbine)		
Exhaust heat	kw	25.4
Maximum allowed back pressure	kPa	6.7
Heat balance		
Engine heat output	kw	4.6
Heat removal of coolant	kw	19
Heat dissipation of intercooler	kw	0
Cooling system		
Fan Speed Ratio		1.77
Pump Flow head	L/s	1.4
Coolant capacity-engine	L	6
Fan diameter	mm	400
Fan speed	R/min	3186
Fan flow	m ³ /s(Pa)	1.22/570
Fan power consumption	kW	2.1
Coolant capacity-Radiator	L	8
Thermostat on / off temperature	℃	
Noted:Pump Flow / Speed head		70/2600-6.2
Electrical system		
Auxiliary voltage (V)		12 V
Alternator (A)		50
Starter Motor (kw)		3.5
Start preheater (kw)		0.8
Number of teeth of flywheel ring gear		109
Alternator		60Hz/1800R.P.M
Units		
Manufacture / Brand		COMCAST ENERGY GROUP
Model		CEG184FS
Output.....Cont/40℃	KVA/KW	16/20
.....Standby/27℃	KVA/KW	18/22
Coupling / No. of Bearings		Direct / Single Bearing
Phase / Poles		3-Phase / 4-Pole
Power Factor		Cos Φ = 0.8
AVR Regulation		Yes
Voltage Regulation		± 0.5 %
Insulation Class		H
Drip Proof		IP23
Excitation		Brushless self-excitation
Altitude	m	≤1000
Overspeed	min -1	2250
Other Part		
Controller		DeepSeaDSE6120
Circuit Breaker		CHNT

For More Information
Please visit our website www.comcast-sa.com or contact your local sales representative.

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