

80 KVA GENSET

Technical Data

Engine	Alternator	Generator Model
Cummins 4BTA3.9G11(QC70/80E)	STAMFORD Desing CEG 224F	CEG-C88S

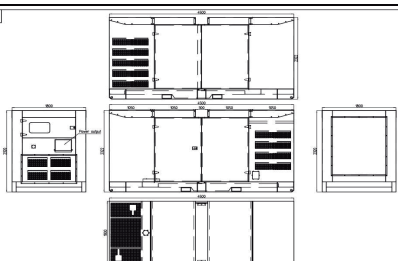
60 Hz/1800rpm	1 - Phase Factor Cos $\Phi = 1$ 3 - Phase Factor Cos $\Phi = 0.8$	Emissions N/A
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RATINGS	Prime Power (PRP)		Standby Power (ESP)		Rated Current (Amps)	Fuel Consumption @100% Load
	kWe	kVA	kWe	kVA	(A)	g/kW.h
Voltage (V)	208	64	70	88	222.1	207.0



Key Features:

- Silent Diesel Genset, Based on **Cummins** 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).
- DEEPSEA 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:		2500
Width (W)-mm:		1000
Height (H)-mm:		1450
Dry Weight-kg:		1820

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		4BTA3.9G11(QC70/80E)
Compression Ratio:		17.3:1
Bore:	mm	102mm
Stroke:	mm	120mm
Governor Regulation:		≤5%
Aspiration:		Turbocharger& Aftercooler
Displacement:	L	3.9 L
No. of Cylinders:		4
Fuel System:		BYC PB/Electronic Governor
Prime Power	kw	80
Standby Power	kw	90
Performance Data		
Governed Engine Speed	r/min	1800
100% prime power	g/kW·h	207
75% prime power	g/kW·h	210
50% prime power	g/kW·h	223
25% prime power	g/kW·h	266
General Engine Data		
Approximate Engine Weight (wet)	-kg	350
Mass Moment of Inertia of Rotating Components (No Flywheel)	-kg·m ²	0.143
Center of Gravity from Rear Face of Block	mm	373
Center of Gravity above Crankshaft Centerline	mm	163
Engine Idle Speed	RPM	950-1050
Fire Order	N	1-3-4-2
Engine Mounting		
Maximum (Static) Bending Moment at Rear Face of Block	N.m	1356
Exhaust System		
Maximum Back Pressure	N.m	10
Air Intake System		
Maximum Intake Air Restriction with Heavy Duty Air Cleaner		
Dirty Element	kPa	6.2
Clean Element	kPa	3.7
Lubrication System		
Engine Oil Pressure for Engine Protection Devices:		BYC PB/Direct injection
Idle Speed(Minimum)	kPa	207
Governed Speed(Maximum)	kPa	345
Maximum Oil Temperature	℃	121
Minimum Required Lube System Capacity - Sump plus Filters	litre	10.9
Fuel System		
<i>Type Injection System</i>		
Maximum Restriction at Lift Pump	mmHg	102
Total Drain Flow (constant for all loads)	litre/hr	30
Cooling System		
Coolant Capacity - Engine Only	litre	8.3
Maximum Coolant Friction Head External to Engine	kPa	35
Maximum Static Head of Coolant Above Engine Crank Centerline	m	28
Standard Thermostat (Modulating) Range	℃	83 - 95
Minimum Pressure Cap	kPa	69
Maximum Top Tank Temperature for Standby / Prime Power	℃	104 / 100
Electrical System		
Cranking Motor (Heavy Duty, Positive Engagement)	volt	24V
Battery Charging System, Negative Ground	ampere	40
Maximum Allowable Resistance of Cranking Circuit	ohm	0.002
Minimum Recommended Battery Capacity		
Cold Soak @ 0 to 32-F (-18 to 0-C)	0°F CCA	312
Exhaust System		
Intake Air Flow	litre/sec	93
Exhaust Gas Flow ...	litre/sec	188
Exhaust Gas Temperature	℃	393
Alternator		
60Hz/1800R.P.M		
Units		
Manufacture / Brand		COMCAST ENERGY GROUP
Model		CEG 224F
Output.....Cont/40℃	KVA/KW	58/72
.....Standby/27℃	KVA/KW	64/80
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.

México

Ovearseas Sales Subsidiary
Cal. Lázaro Cárdenas #1309
Col. Colón industrial CP.44940
Guadalajara, Jalisco
Tel. +52 33 38607059
info.mx@comcast-sa.com

Guatemala

Ovearseas Sales Subsidiary
Av. Hincapié 28-45 zona 13
Guatemala city 01013
Tel. +502 2309 7221
info.gua@comcast-sa.com

Nicaragua

Ovearseas Sales Subsidiary
Km 9.5 carretera a masaya contigo
al hotel plaza guanacaste
Managua, Nicaragua
Tel. +505 5764 9497
admin.nic@comcast-sa.com

El Salvador

Ovearseas Sales Subsidiary
Calle El Bambú 8,
Ayutuxtepeque
San Salvador, El Salvador
Tel. +503 7950 4882
info.sv@comcast-sa.com

Dominican Republic

Ovearseas Sales Subsidiary
Av. Nuñez de Cáceres #2 Plaza
Comercial Pradosur, Local 102
Santo Domingo, Dominican Republic
Te.+ 1 809 571 1033
info.dr@comcast-sa.com