

160 KVA GENSET

Technical Data

Engine	Alternator	Generator Model
Cummins 6BTAA5.9-G12	STAMFORD Desing CEG 274E	CEG-C176S

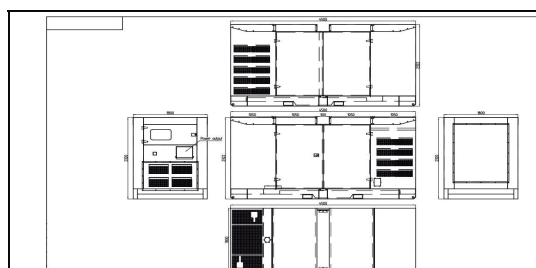
60 Hz/1800rpm	1 - Phase Factor Cos $\Phi = 1$ 3 - Phase Factor Cos $\Phi = 0.8$	Emissions N/A
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RATINGS	Prime Power (PRP)		Standby Power (ESP)		Rated Current Amps	Fuel Consumption @100% Load
	kWe	kVA	kWe	kVA	(A)	
Voltage (V)						g/kW.h
208	128	160	141	176	444.1	203.0



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).
- 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:		3100
Width (W)-mm:		1100
Height (H)-mm:		1700
Dry Weight-kg:		2200

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		6BTAA5.9-G12
Compression Ratio:		17.3:1
Bore:	mm	102mm
Stroke:	mm	120mm
Governor Regulation:		≤5%
Aspiration:		Turbocharged & Charge Air Cooled
Displacement:	L	5.9 L
No. of Cylinders:		6
Fuel System:		BYC P7100/Electronic Governor
Prime Power	kw	150
Standby Power	kw	165
Performance Data		
Governed Engine Speed	r/min	1800
100% prime power	g/kW·h	208
75% prime power	g/kW·h	205
50% prime power	g/kW·h	214
25% prime power	g/kW·h	246
General Engine Data		
Approximate Engine Weight (wet)	-kg	413
Mass Moment of Inertia of Rotating Components (No Flywheel)	-kg·m ²	0.25
Center of Gravity from Rear Face of Block	mm	391
Center of Gravity above Crankshaft Centerline	mm	140
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
Minimum Dirt Holding Capacity with Heavy Duty Air Cleaner	g/cfm	53
Maximum Temperature Rise from Ambient to the Inlet of the Turbocharger	°C	17
Recommended intake piping size (inner diameter)	mm	76
Lubrication System		
Idle Speed (Minimum)	kPa	207
Governed Speed (Maximum)	kPa	345
Maximum Oil Temperature	°C	121
Minimum Required Lube System Capacity - Sump plus Filters	litre	16.4
Fuel System		
Type Injection System		ByC P7100
Maximum Restriction at Lift Pump	mmHg	13.6
Total Drain Flow (constant for all loads)	litre/hr	67.7
Cooling System		
Coolant Capacity - Engine Only	litre	10
Maximum Coolant Friction Head External to Engine	kPa	35
Maximum Static Head of Coolant Above Engine Crank Centerline	m	14
Standard Thermostat (Modulating) Range	°C	82 - 95
Minimum Pressure Cap	kPa	69
Maximum Top Tank Temperature for Standby / Prime Power	°C	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	400
Exhaust System		
Intake Air Flow	litre/sec	182
Exhaust Gas Flow ...	litre/sec	398
Exhaust Gas Temperature	°C	445
Alternator		
Units		
Manufacture / Brand		COMCAST ENERGY GROUP
Model		CEG 274E
Output.....Cont/40°C	KVA/KW	112/140
.....Standby/27°C	KVA/KW	123/154
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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