

40 KVA GENSET

Technical Data

Engine	Alternator	Generator Model
Cummins 4BT3.9-G2	STAMFORD Desing CEG184H	CEG-C44S

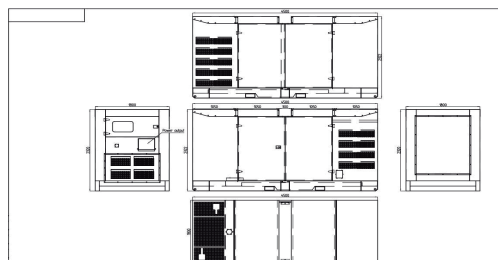
60 Hz/1800rpm	1 - Phase Factor Cos $\Phi = 1$ 3 - Phase Factor Cos $\Phi = 0.8$	Emissions N/A
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RATINGS	Prime Power (PRP)		Standby Power (ESP)		Rated Current (A)	Fuel Consumption @100% Load
	kWe	kVA	kWe	kVA		g/kW·h
Voltage (V)	208	32	40	35	44	111.0
						221.0



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:		2280
Width (W)-mm:		950
Height (H)-mm:		1450
Dry Weight-kg:		1230

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		4BT3.9-G2
Compression Ratio:		18.0:1
Bore:	mm	102mm
Stroke:	mm	120mm
Governor Regulation:		≤5%
Aspiration:		Turbocharger
Displacement:	L	3.9 L
No. of Cylinders:		4
Fuel System:		BYC A/Electronic Governor
Prime Power	kw	40
Standby Power	kw	44
Performance Data		
Governed Engine Speed	r/min	1800
100% prime power	g/kW·h	221
75% prime power	g/kW·h	230
50% prime power	g/kW·h	255
25% prime power	g/kW·h	346
General Engine Data		
Approximate Engine Weight (wet)	-kg	321
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		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:		
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		
Type Injection System		BYC A Direct Injection
WF PW Direct Injection	kPa	13.6
Maximum Fuel Inlet Temperature	℃	70
Total Drain Flow (constant for all loads)	litre/hr	30
Cooling System		
Coolant Capacity - Engine Only	litre	7.2
Maximum Coolant Friction Head External to Engine	kPa	35
Maximum Static Head of Coolant Above Engine Crank Centerline	m	14
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	53.1
Exhaust Gas Flow ...	litre/sec	101
Exhaust Gas Temperature	℃	350
Alternator		
Units		
Manufacture / Brand		COMCAST ENERGY GROUP
Model		CEG 184H
Output.....Cont/40℃	KVA/KW	30/40
.....Standby/27℃	KVA/KW	33/45
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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