

100 KVA GENSET

Technical Data

Engine	Alternator	Generator Model
Cummins 4BTA3.9 - G13	STAMFORD Desing CEG224G	CEG - C110S

60 Hz/1800rpm

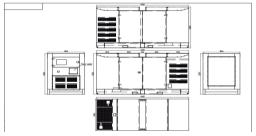
1 - Phase Factor Cos Φ = 1 3 - Phase Factor Cos Φ = 0.8 Emissions N/A

RATINGS	Prime Power		Standby Power		Rated Current	Fuel Consumption	
KATINGS	(PRP)		(ESP)		Amps	@100% Load	
Voltage (V)	kWe	kVA	kWe	kVA	(A)	g/kW·h	
208	90	100	00	110	277.6	212.0	



Key Features:

- Silent Diesel Genset, Based on **Cummins** engine, and STAMFORD design
- -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:		2600			
Width (W)-mm:		1100			
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 PowerEmergency 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.







		4DTA0 0 040
ingine Model		4BTA3.9-G13
Compression Ratio:		18.0:1
ore:	mm	102mm
torke:	mm	120mm
overnor Regulation:		≤5%
spiration:		Jacket water Aftercooled
isplacement:	L	3.9 L
o. of Cylinders:		4
uel System:		WF PW/Electronic Governor
rime Power	kw	87
tandby Power	kw	97
erformance Data		
overned Engine Speed	r/min	1800
00% prime power	g/kW·h	212
5% prime power	g/kW·h	208
0% prime power	g/kW·h	215
5% prime power	g/kW·h	246
eneral Engine Data	9,	2.10
pproximate Engine Weight (wet)	-kg	355
ass Moment of Inertia of Rotating Components (No Flywheel)		0.143
	-kg·m2	
enter of Gravity from Rear Face of Block	mm	262
enter of Gravity above Crankshaft Centerline	mm	155
ngine Idle Speed	RPM	950-1050
re Order		1-3-4-2
ngie Mounting		
aximum (Static) Bending Moment at Rear Face of Block	N.m	1356
khaust System		
aximum Back Pressure	N.m	10
ir Intake System	INJIII	10
aximum Intake Air Restriction with Heavy Duty Air Cleaner		
aximum intake Air Restriction with Heavy Duty Air Cleaner irty Element	kPa	6.2
lean Element	kPa	3.7
ubrication System		
ngine Oil Pressure for Engine Protection Devices:		
lle Speed(Minimum)	kPa	207
overned Speed(Maximum)	kPa	345
aximum Oil Temperature	$^{\circ}\mathbb{C}$	121
linimum Required Lube System Capacity - Sump plus Filters	litre	10.9
uel System		
ype Injection System		WF PW Direct Injection
VF PW Direct Injection	kPa	
,		13.6
laximum Fuel Inlet Temperature	$\mathcal C$	67.7
otal Drain Flow (constant for all loads)	litre/hr	30
ooling System		
oolant Capacity - Engine Only	litre	7.2
laximum Coolant Friction Head External to Engine	kPa	35
laximum Static Head of Coolant Above Engine Crank Centerline	m	18.3
Ţ Ţ		
tandard Thermostat (Modulating) Range	$\mathcal C$	83 - 95
inimum Pressure Cap	kPa	48
aximum Top Tank Temperature for Standby / Prime Power	\mathcal{C}	110 / 104
lectrical System		
	volt	241/
ranking Motor (Heavy Duty, Positive Engagement)	volt	24V
attery Charging System, Negative Ground	ampere	40
aximum Allowable Resistance of Cranking Circuit	ohm	0.002
inimum Recommended Battery Capacity		<u> </u>
old Soak @ 0 to 32-F (-18 to 0-C)	0°F CCA	312
xhaust System	2 7 337	Ü.E
	Barre Jennie	70
take Air Flow	litre/sec	79
khaust Gas Flow	litre/sec	142
khaust Gas Temperature	$\mathcal C$	380
ternator		60Hz/1800R.I
nits		
anufacture / Brand		COMCAST ENERGY GROU
odel		CEG224G
	IV IV IIVVI	
utputCont/40°C	KVA/KW	68/85
Standby/27°C	KVA/KW	75/94
oupling / No. of Bearings		Direct / Single Bearing
nase / Poles		3-Phase / 4-Pole
ower Factor		Cos Φ = 0.8
/R Regulation		Yes
oltage Regulation		± 0,5 %
sulation Class		H
		IP23
ip Proof		
xcitation		Brushless self-excitation
titude	m	≤1000
verspeed	min -1	2250
ther Part		
ontroller		DeepSeaDSE6120
		CHNT



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