

# 60 KVA GENSET

## Technical Data

| Engine                       | Alternator               | Generator Model |
|------------------------------|--------------------------|-----------------|
| Cummins 4BTA3.9-G2(QC50/60E) | STAMFORD Desing CEG 224D | DAC63-C66S      |

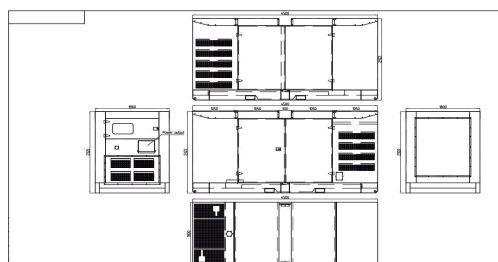
|               |  |                  |
|---------------|--|------------------|
| 60 Hz/1800rpm | 1 - Phase Factor Cos $\Phi = 1$<br>3 - Phase Factor Cos $\Phi = 0.8$ | Emissions<br>N/A |
|---------------|--|------------------|

| RATINGS     | Prime Power (PRP) |     | Standby Power (ESP) |     | Rated Current (A) | Fuel Consumption @100% Load |
|-------------|-------------------|-----|---------------------|-----|-------------------|-----------------------------|
|             | kWe               | kVA | kWe                 | kVA |                   | g/kW·h                      |
| Voltage (V) | 208               | 48  | 53                  | 66  | 72.2              | 219.0                       |



### 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: |      | 2280   |
| Width (W)-mm:  |      | 950    |
| Height (H)-mm: |      | 1450   |
| Dry Weight-kg: |      | 1290   |

**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



|  |                    |                           |
|--|--------------------|---------------------------|
| <b>Basic Technical Data</b>                                  |                    |                           |
| Engine Model   |                    | 4BTA3.9-G2(QC50/60E)      |
| 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 A/Electronic Governor |
| Prime Power  | kw                 | 60                        |
| Standby Power  | kw                 | 66                        |
| <b>Performance Data</b>                                      |                    |                           |
| Governed Engine Speed  | r/min              | 1800                      |
| 100% prime power   | g/kW·h             | 219                       |
| 75% prime power  | g/kW·h             | 223                       |
| 50% prime power  | g/kW·h             | 240                       |
| 25% prime power  | g/kW·h             | 305                       |
| <b>General Engine Data</b>                                   |                    |                           |
| Approximate Engine Weight (wet)                              | -kg                | 350                       |
| Mass Moment of Inertia of Rotating Components (No Flywheel)  | -kg·m <sup>2</sup> | 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                  |
| <b>Engine Mounting</b>                                       |                    |                           |
| Maximum (Static) Bending Moment at Rear Face of Block        | N.m                | 1356                      |
| <b>Exhaust System</b>  |                    |                           |
| Maximum Back Pressure  | N.m                | 10                        |
| <b>Air Intake System</b>                                     |                    |                           |
| Maximum Intake Air Restriction with Heavy Duty Air Cleaner   |                    |                           |
| Dirty Element  | kPa                | 6.2                       |
| Clean Element  | kPa                | 3.7                       |
| <b>Lubrication System</b>                                    |                    |                           |
| Engine Oil Pressure for Engine Protection Devices:           |                    |                           |
| Idle Speed(Minimum )   | kPa                | 207                       |
| Governed Speed(Maximum )                                     | kPa                | 345                       |
| Maximum Oil Temperature                                      | °C                 | 121                       |
| Minimum Required Lube System Capacity - Sump plus Filters    | litre              | 10.9                      |
| <b>Fuel System</b>   |                    |                           |
| Type Injection System  |                    | BYC PB Direct Injection   |
| Maximum Restriction at Lift Pump                             | kPa                | 13.6                      |
| Total Drain Flow (constant for all loads)                    | litre/hr           | 30                        |
| <b>Cooling System</b>  |                    |                           |
| 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                  | 14                        |
| Standard Thermostat (Modulating) Range                       | °C                 | 82 - 95                   |
| Minimum Pressure Cap   | kPa                | 69                        |
| Maximum Top Tank Temperature for Standby / Prime Power       | °C                 | 104 / 100                 |
| <b>Electrical System</b>                                     |                    |                           |
| 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                       |
| <b>Exhaust System</b>  |                    |                           |
| Intake Air Flow  | litre/sec          | 66                        |
| Exhaust Gas Flow ...   | litre/sec          | 134                       |
| Exhaust Gas Temperature                                      | °C                 | 393                       |
| <b>Alternator</b>  |                    |                           |
| <b>Units</b>   |                    |                           |
| Manufacture / Brand  |                    | COMCAST ENERGY GROUP      |
| Model  |                    | CEG 224D                  |
| Output.....Cont/40°C   | KVA/KW             | 40/50                     |
| .....Standby/27°C  | KVA/KW             | 44/55                     |
| 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                      |
| <b>Other Part</b>  |                    |                           |
| Controller   |                    | DeepSeaDSE6120            |
| Circuit Breaker  |                    | CHNT                      |

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