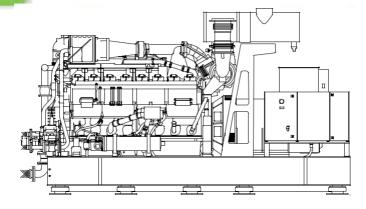
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2





| Fuel Consumption (ISO3046/1) | 100% of Rated Load | 90% of Rated Load | 75% of Rated Load | 50% of Rated Load |
|---|-----------------------|----------------------|----------------------|----------------------|
| Fuel Consumption (LHV) ISO3046/1, kW (MMBTU/hr) 1.2.3.4 | 4709,1 (16.08) | 4289,3 (14.64) | 3615,8 (12.34) | 2553,1 (8.72) |
| Electrical Efficiency ISO3046/1, percent 1,2,4 | 44.3% | 43.8% | 43.2% | 40.8% |
| Mechanic Efficiency ISO3046/1, percent 1,2,3,4 | 45.7% | 45.1% | 44.6% | 42.1% |
| Thermal Efficiency ISO3046/1, percent 2,3,4,11 | 48.9% | 49.1% | 50.3% | 52.7% |

Engine Data

| Cummins |
|------------------------|
| HSK78G – V12 |
| Natural Gas (Pipeline) |
| 78 (4778) |
| Turbocharged 1 |
| 2150 |
| 13.0:1 |
| 190 (7.48) |
| 230 (9.06) |
| 1500 |
| 617 (163) |
| 0.2 (0.15) |
| 24 |
| |

Fuel System

| Gas supply pressure to engine inlet, bar (psi) 4 | 0.15 (2.2) |
|--|------------|
| Min. Methane Index | 70 |

Methane Number Capability

| Load (Percent of Reted) | | | | |
|-------------------------|-----|-----|-----|--|
| 100% | 90% | 75% | 65% | |
| 70 | 60 | 50 | 45 | |

* Technical drawing has given as a reference, Aksa reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice.

Genset Dimensions – Open

| Genset Height, m (ft) ₅ | 6.9 (22) |
|---------------------------------|---------------|
| Genset Width, m (ft) 5 | 2.2 (7) |
| Genset Height, m (ft) 5 | 2.8 (9) |
| Genset Weight (wet), kg (lbs) 5 | 23110 (51000) |

Notes:

1.At ISO3046 reference conditions, altitude 1013 mbar (30 in Hg), air inlet temperature 25°C (77°F).

2. According to ISO 3046/I with fuel consumption tolerance of +5% -0%.

3.With air intake at 25°C (77°F). Tolerance ± 5°F.

4.Tested using pipeline natural gas with LHV of 33.44 mJ/Nm3 (905 BTU/ft3).

5.Weights and set dimensions represent a generator set with its standard features only.

| Energy Data | 100% of Rated Load | 90% of Rated Load | 75% of Rated Load | 50% of Rated Load |
|---|-----------------------|----------------------|----------------------|----------------------|
| Continuous Shaft Power, kWm (bhp) 1,2 | 2150 (2883) | 1935 (2595) | 1612 (2162) | 1075 (1442) |
| Continuous Generator Electrical Output kWe@1.0pf 1 | 2085 | 1877 | 1564 | 1043 |
| Total Heat Rejected in LT Circuit, kW (BTU/min) 3 | 138 (7829) | 127 (7218) | 120 (6839) | 106 (6010) |
| Total Heat Rejected in HT Circuit, kW (BTU/min) 3 | 1259 (71587) | 1107 (62950) | 916 (52102) | 637 (36219) |
| Heat Radiated to Ambient, kW (BTU/min) 4 | 150 (8541) | 137 (7771) | 116 (6608) | 82 (4664) |
| Available Exhaust heat to 105°C, kW (BTU/min) $_{\scriptscriptstyle 3}$ | 906 (51519) | 873 (49622) | 783 (44512) | 602 (34243) |
| Intake Air Flow | 100% of Rated Load | 90% of Rated Load | 75% of Rated Load | 50% of Rated Load |
| Intake Air Flow, ft3/min (L/s) ₅ | 5470 (2582) | 4906 (2315) | 4108 (1939) | 2810 (1326) |
| Exhaust Air Flow | 100% of Rated Load | 90% of Rated Load | 75% of Rated Load | 50% of Rated Load |
| Exhaust Gas Flow, ft3/min (L/s) 5 | 12786 (6035) | 11729 (5535) | 10162 (4796) | 7444 (3513) |
| Exhaust Gas Flow, kg/s (lb/h)₅ | 3.27 (25953) | 2.93 (23254) | 2.46 (19524) | 1.69 (13413) |
| Exhaust Temperature After Turbine, °C (°F) 6 | 379 (715) | 393 (741) | 417 (782) | 465 (869) |
| Max Exhaust System Back Pressure, in-Hg (kPa) 6,7 | 1.45 (4.9) | 1.45 (4.9) | 1.45 (4.9) | 1.45 (4.9) |
| HT Cooling Circuit | 100% of Rated Load | 90% of Rated Load | 75% of Rated Load | 50% of Rated Load |
| HT Circuit Engine Coolant Volume, L (gal) | 284 (75) | 284 (75) | 284 (75) | 284 (75) |
| HT Coolant Flow @ Max Ext Restriction, m3/h (gal/min) | 99 (436) | 99 (436) | 99 (436) | 99 (436) |
| Max HT Engine Coolant Inlet Temp, °C (°F) Reference 8 | 78 (172) | 79 (174) | 81 (177) | 84 (183) |
| HT Coolant Outlet Temp, °C (°F) 8 | 90 (194) | 90 (194) | 90 (194) | 90 (194) |
| Max Pressure Drop in External HT Circuit, kPa (psi) | 130 (18.9) | 130 (18.9) | 130 (18.9) | 130 (18.9) |
| Max Static Hd. of Coolant Above Crsht Centerline, ft (m) | 60 (18.3) | 60 (18.3) | 60 (18.3) | 60 (18.3) |

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| LT Cooling Circuit | 100% of Rated Load | 90% of Rated Load | 75% of Rated Load | 50% of Rated Load |
|--|-----------------------|----------------------|----------------------|----------------------|
| LT Circuit Engine Coolant Volume, I (gal) | 49 (13) | 49 (13) | 49 (13) | 49 (13) |
| LT Coolant Flow @ Max Ext Restriction, m ₃ /h (gal/min) | 34 (150) | 34 (150) | 34 (150) | 34 (150) |
| Max LT Coolant Inlet Temperature °C (°F) 9 | 50 (122) | 50 (122) | 50 (122) | 50 (122) |
| Nominal LT Coolant Oulet Temperature 9 | 53 (128) | 53 (128) | 53 (128) | 53 (128) |
| Max Pressure Drop in External LT Circuit, kPa (psi) | 130 (18.9) | 130 (18.9) | 130 (18.9) | 130 (18.9) |
| Max Static Hd. of Coolant Above Crsht Centerline, ft (m) | 60 (18.3) | 60 (18.3) | 60 (18.3) | 60 (18.3) |
| Emissions | 100% of Rated Load | 90% of Rated Load | 75% of Rated Load | 50% of Rated Load |
| NOx emissions, mg/Nm3 @ 5% O2 (g/hp-h)7 | 493 (0.94) | 489 (0.94) | 494 (0.97) | 490 (1.01) |
| CO Emissions Rate mg/Nm3@5%O2 (g/hp-h) 8 | 862 (1.65) | 872 (1.68) | 884 (1.73) | 888 (1.83) |
| THC Exhaust Emissions, mg/Nm3@ 5% O, (g/hp-h) ଃ | 1310 (2.87) | 1352 (2.98) | 1437 (3.22) | 1587 (3.76) |

Alternator Data 10

| Stamford |
|-----------|
| LVSI 804T |
| 50 |
| 2800 |
| 400 |
| 3 |
| DM110 |
| (+/-)0.5% |
| н |
| F |
| IP23 |
| 6112 |
| 192 |
| |

Notes:

1. With engine driven coolant pump.

2. At ISO3046 reference conditions, altitude 1013 mbar (30 in Hg), air inlet temperature 25°C (77°F).

3. Production variation/tolerance ±10%.

4. Tolerance +/- 15%.

5. According to ISO 3046/I with fuel consumption tolerance of +5% -0%.

6. With air intake at 25°C (77°F). Tolerance ± 5°F

7. Exhaust system back pressure is a rated load and will decrease at lower loads.

8. Outlet temperature controlled by thermostat, inlet temperature for reference only.

9. Inlet temperature controlled by thermostat, outlet temperature for reference only.

10.Continuous (C)

11.Exhaust gas cooled to 105 °C.

Continuous rating definition

Applicable for supplying power continuously to a constant load up to the full output rating for unlimited hours. No sustained overload capability is available for this rating. Consult authorized distributor for rating (equivalent to continuous power in accordance with ISO8528, ISO3046, AS2789, DIN6271, and BS5514). This rating is not applicable to all generator set models.

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