



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}	3598 (12,29)	3271 (11,17)	2749 (9,39)	1940 (6,63)
Electrical Efficiency ISO3046/1, percent ^{1,2,3,4}	42,8%	42,4%	42,0%	39,7%
Thermal Efficiency ISO3046/1, percent ^{1,2,3,4,5}	50,0%	49,1%	51,1%	53,9%

* LT&HT pumps power included

Engine Data

Engine Manufacturer	Cummins
Engine Model	QSK60G22 / FR60325 – V16
Fuel Type	Natural Gas (Pipeline)
Displacement, L (cu.in)	60 (3661)
Aspiration	Turbocharged and Water-Air Aftercooled
Compression Ratio	13,5:1
Bore, mm (in)	159 (6,26)
Stroke, mm (in)	190 (7,48)
Rated Speed, rpm	1500
Lube Oil Capacity, L (gal)	380 (100)
Full Load Lubricating oil consumption, g/kWe-hr (g/hp-hr)	0,15 (0,11)
Electric starter voltage, V	24

Fuel System

Gas supply pressure to engine inlet, bar (psi) ⁴	0,20 (2,9)
Min. Methane Index	70

Methane Number Capability

Load (Percent of Rated)			
100%	90%	75%	50%
70	70	70	70

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Genset Dimensions

Genset Length, mm (ft) ⁶	5180 (17)
Genset Width, mm (ft) ⁶	2099 (6,9)
Genset Height, mm (ft) ⁶	2972 (9,8)
Genset Weight, kg (lbs) ⁶	TBD

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. LT heat power included
6. 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 Generator Electrical Output kWe@1.0pf ¹	1540	1386	1155	770
Total Heat Rejected in LT Circuit, kW (MMBTU/h) ³	126 (0,43)	112 (0,38)	88 (0,30)	62 (0,21)
Total Heat Rejected in HT Circuit, kW (MMBTU/h) ³	928 (3,17)	781 (2,66)	665 (2,27)	478 (1,63)
Heat Radiated to Ambient, kW (MMBTU/h) ⁴	234 (0,80)	213 (0,73)	178 (0,61)	125 (0,43)
Available Exhaust heat to 105C, kW (MMBTU/h) ³	746 (2,54)	713 (2,43)	651 (2,22)	506 (1,73)

Intake Air Flow

	100% of Rated Load	90% of Rated Load	75% of Rated Load	50% of Rated Load
Intake Air Flow Mass, kg/s (lb/hr) ⁵	2,25 (17820)	2,00 (15840)	1,66 (13150)	1,14 (9030)
Intake Air Flow Volume, m ³ /s @ 0°C (scfm) ⁵	1,74 (3890)	1,55 (3460)	1,28 (2860)	0,88 (1970)

Exhaust Air Flow

	100% of Rated Load	90% of Rated Load	75% of Rated Load	50% of Rated Load
Exhaust Gas Flow Mass, kg/s (lb/hr) ⁵	2,33 (18450)	2,07 (16390)	1,72 (13620)	1,18 (9350)
Exhaust Gas Flow Volume, m ³ /s (cfm) ⁵	4,25 (9000)	3,89 (8240)	3,35 (7090)	2,43 (5140)
Exhaust Temperature After Turbine, °C (°F) ⁶	371 (700)	391 (736)	414 (778)	454 (849)
Max Exhaust System Back Pressure, mmHG (inH ₂ O) ^{6,7}	37,3 (20,0)	TBD	TBD	TBD

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)	181 (48)	181 (48)	181 (48)	181 (48)
HT Coolant Flow @ Max Ext Restriction, m ³ /h (gal/min)	70 (308)	70 (308)	70 (308)	70 (308)
Max HT Engine Coolant Inlet Temp, °C (°F) Reference ⁸	77 (171)	79 (175)	81 (178)	83 (182)
HT Coolant Outlet Temp, °C (°F) ⁸	90 (194)	90 (194)	90 (194)	90 (194)
Max Pressure Drop in External HT Circuit, bar (psig)	1,0 (15)	1,0 (15)	1,0 (15)	1,0 (15)
Min Static Head, bar (psig)	0,5 (7)	0,5 (7)	0,5 (7)	0,5 (7)

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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, l (gal)	34 (9)	34 (9)	34 (9)	34 (9)
LT Coolant Flow @ Max Ext Restriction, m ³ /h (gal/min)	23 (100)	23 (100)	23 (100)	23 (100)
Max LT Coolant Inlet Temp, °C (°F) ⁹	55 (131)	55 (131)	55 (131)	55 (131)
LT Coolant Outlet Temperature, Reference Only ⁹	45 (113)	45 (113)	45 (113)	45 (113)
Max Pressure Drop in External LT Circuit, bar (psig)	1,0 (15)	1,0 (15)	1,0 (15)	1,0 (15)
Min Static Head, bar (psig)	0,5 (7)	0,5 (7)	0,5 (7)	0,5 (7)

Emissions

	100% of Rated Load	90% of Rated Load	75% of Rated Load	50% of Rated Load
NO _x emissions, mg/Nm ³ @ 5% O ₂ (g/hp-h) ⁷	250 (0,50)	250 (0,50)	250 (0,50)	250 (0,50)
CO Emissions, mg/Nm ³ @5%O ₂ (g/hp-h) ⁸	780 (1,50)	760 (1,50)	740 (1,50)	680 (1,50)
THC Emissions, mg/Nm ³ @ 5% O ₂ , (g/hp-h) ⁸	1617 (3,00)	1656 (3,00)	1743 (3,00)	1666 (4,00)

Alternator Data ¹⁰

Manufacturer	Mecc Alte
Alternator Made and Model	ECO 46 1,5L/4 A
Frequency (Hz)	50
Power (kVA)	2050
Voltage (V)	400
Phase	3
A.V.R.	DER1
Voltage Regulation	(+/-) 0,5%
Insulation System	H
Temperature Rise	F
Protection	IP23
Weight comp. Generator (kg)	4260
Cooling Air (m ³ /min)	135

Notes:

1. With LT&HT 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/l 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)

Continuous rating definition

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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.