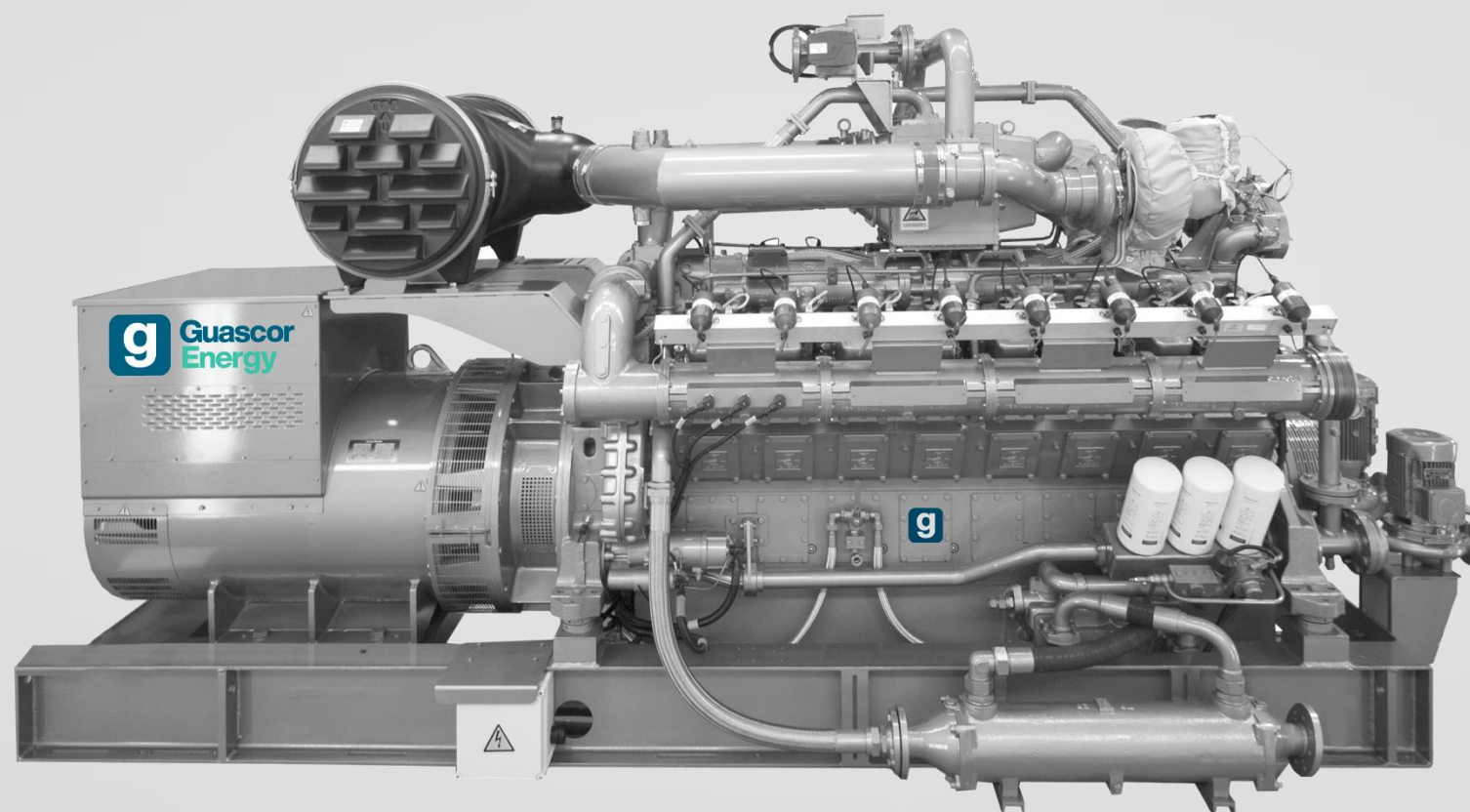


S series gas engines and gen-sets biogas

1,200/1,500/1,800 rpm



G-18SL & G-24SL

Engine Parameters ²⁾	English Units	Metric Units	G-18SL						G-24SL					
			1,200		1,500		1,800		1,200		1,500		1,800	
Speed	rpm		1,200		1,500		1,800		1,200		1,500		1,800	
Engine power ²⁾	bhp	kWb	338	(252)	422	(315)	469	(350)	449	(335)	562	(419)	607	(453)
Cylinder arrangement			in Line 6						in Line 8					
Mean effective pressure	psi	bar	203	(14.0)	203	(14.0)	188	(13.0)	203	(14.0)	203	(14.0)	183	(12.6)
Bore	inch	mm	5.98	(152)	5.98	(152)	5.98	(152)	5.98	(152)	5.98	(152)	5.98	(152)
Stroke	inch	mm	6.50	(165)	6.50	(165)	6.50	(165)	6.50	(165)	6.50	(165)	6.50	(165)
Displacement	cu.in	litre	1,095	(18.0)	1,095	(18.0)	1,095	(18.0)	1,460	(24.0)	1,460	(24.0)	1,460	(24.0)
Mean piston speed	in/s	m/s	260	(6.6)	325	(8.3)	390	(9.9)	260	(6.6)	325	(8.3)	390	(9.9)
Compression ratio			11.6:1						11.6:1					
Combustion air massflow	lbs/hr	kg/h	2,800	(1,270)	3,351	(1,520)	3,858	(1,750)	3,549	(1,610)	4,409	(2,000)	4,960	(2,250)
Packaged ventilation air flow ²⁾	scfm	m ³ /h	10,383	(17,640)	12,978	(22,050)	14,420	(24,500)	1,380.2	(23,450)	17,263	(29,330)	18,664	(31,710)
Engine coolant capacity (main/aux.) ³⁾	gal.	litre	19/7	(70/25)	19/7	(70/25)	19/7	(70/25)	24/7	(90/25)	24/7	(90/25)	24/7	(90/25)
Lube oil capacity ³⁾	gal.	itre	23	(86)	23	(86)	23	(86)	31	(116)	31	(116)	31	(116)
Lube oil consumption ⁴⁾	lbs/bhp.hr	g/kWh	0.00058	(0.35)	0.00058	(0.35)	0.00058	(0.35)	0.00058	(0.35)	0.00058	(0.35)	0.00058	(0.35)

1) Reference gas (CH₄ 62.5%, CO₂: 36 AND N₂: 1.5%) for other biogas qualities consult Guascor Energy Engines

2) Engine performance data acc. to ISO 3046/1

3) Assumes intake air flow at delta T = 5°C including combustion air

4) Not Including pipes and heat exchangers

5) Mean lube oil consumption between maintenance steps

G-18SL & G-24SL

Energy Balance	English Units	Metric Units	G-18SL				G-24SL			
Generator efficiency ^{5) 6)}	%	%	95.5	96.5	96.1	95.9	96.6	96.1		
Electrical power ^{5) 6)}	Btu x 1,000/hr	kWe	241	304	336	321	405	435		
Jacket (HT) water heat	Btu x 1,000/hr	kW	607.8 (178)	754.6 (221)	816.0 (239)	959.5 (281)	1,038.0 (304)	1,188.2 (348)		
Intercooler (LT) water heat	Btu x 1,000/hr	kW	150.2 (44)	143.4 (42)	239.0 (70)	174.1 (51)	211.7 (62)	269.7 (79)		
Exhaust heat - cooled to 120°C	Btu x 1,000/hr	kW	341.4 (100)	460.9 (135)	583.9 (171)	525.8 (154)	614.6 (180)	805.8 (236)		
Engine radiation heat	Btu x 1,000/hr	kW	37.6 (11)	58.0 (17)	54.6 (16)	58.0 (17)	78.5 (23)	68.3 (20)		
Generator radiation heat	Btu x 1,000/hr	kW	38.7 (11)	37.6 (11)	46.6 (14)	46.9 (14)	48.6 (14)	60.3 (18)		
Fuel consumption ⁷⁾	Btu x 1,000/hr	kW	2,140.8 (627)	2,663.2 (780)	3,086.6 (904)	3,045.7 (892)	3,602.2 (1,055)	4,134.9 (1,211)		
Mechanical efficiency	%		40.2	40.4	38.7	37.6	39.7	37.4		
Electrical efficiency	%		38.4	39.0	37.2	36.0	38.4	35.9		
Thermal efficiency	%		51.4	51.0	53.1	54.5	51.8	54.7		
Total efficiency	%		89.7	90.0	90.3	90.5	90.1	90.7		

5) At 60 Hz, U = 0.48 kV, power factor = 1

6) At 50 Hz, U = 0.4 kV, power factor = 1

7) With a tolerance of + 5 %

Data is for continuous rating, at sea level, and at an ambient temperature of 77F (25°C)

Data for special gas and dual gas operation on request.

The values given in this data sheet are for information purposes only and not binding.

G-18SL & G-24SL

System Parameters	English Units	Metric Units	G-18SL				G-24SL							
Jacket (HT) water temperature max.	°F	°C	194	(90)	194	(90)	194	(90)	194	(90)	194	(90)	194	(90)
Jacket (HT) water flow rate min./max.	gpm	m ³ /hr	110/264	(25/60)	136/264	(31/60)	145/264	(33/60)	172/264	(39/60)	185/264	(42/60)	211/264	(48/60)
Intercooler stages			Single				Single							
Intercooler (LT) coolant temperature max.	°F	°C	131	(55)	131	(55)	131	(55)	131	(55)	131	(55)	131	(55)
Intercooler (LT) coolant flow rate min./max.	gpm	m ³ /hr	66/132	15/30	88/132	20/30	110/132	25/30	66/132	15/30	88/132	20/30	110/132	25/30
Exhaust manifold type			Wet				Wet							
Exhaust temperature	°F	°C	655	(346)	705	(374)	750	(399)	738	(392)	711	(377)	784	(418)
Exhaust mass flow wet	lbs/hr	kg/h	3,064	(1,390)	3,660	(1,660)	4,233	(1,920)	3,902	(1,770)	4,828	(2,190)	5,467	(2,480)
Exhaust back-pressure max.	psi	mbar	0.65	(45)	0.65	(45)	0.65	(45)	0.65	(45)	0.65	(45)	0.65	(45)
Maximum pressure loss in front of air cleaner	psi	mbar	0.073	(5)	0.073	(5)	0.073	(5)	0.073	(5)	0.073	(5)	0.073	(5)
EFuel pressure range	psi	mbar	0.73 - 3.48 (50 - 240)				0.73 - 3.48 (50 - 240)							
Starter battery 2x12 V, capacity required	Ampere-hour		280				280							

Emissions ⁸⁾	English Units	G-18SL				G-24SL			
NOx	g/bhp.hr	< 1	< 1.1	< 1	< 1	< 1	< 1.1	< 1	< 1
CO	g/bhp.hr	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
THC (in C1base)	g/bhp.hr	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
NMHC (in C1base)	g/bhp.hr	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7

8) Lower emission engines are available; contact a sales representative for performance data
 - Engine performance data acc. to ISO 3046/1
 - The values given in this data sheet are for information purposes only and not binding

G-36SL & G-48SL

Engine Parameters ²⁾	English Units	Metric Units	G-36SL			G-48SL		
			1,200	1,500	1,800	1,200	1,500	1,800
Speed	rpm		1,200	1,500	1,800	1,200	1,500	1,800
Engine power ²⁾	bhp	kWb	675 (503)	845 (630)	939 (700)	898 (670)	1,124 (838)	1,215 (906)
Cylinder arrangement			V12			V16		
Mean effective pressure	psi	bar	203 (14.0)	203 (14.0)	188 (13.0)	203 (14.0)	203 (14.0)	183 (12.6)
Bore	inch	mm	5.98 (152)	5.98 (152)	5.98 (152)	5.98 (152)	5.98 (152)	5.98 (152)
Stroke	inch	mm	6.50 (165)	6.50 (165)	6.50 (165)	6.50 (165)	6.50 (165)	6.50 (165)
Displacement	cu.in	Litres	2,191 (35.9)	2,191 (35.9)	2,191 (35.9)	2,921 (47.9)	2,921 (47.9)	2,921 (47.9)
Mean piston speed	in/s	m/s	260 (6.6)	325 (8.3)	390 (9.9)	260 (6.6)	325 (8.3)	390 (9.9)
Compression ratio			11.6:1			11.6:1		
Combustion air massflow	lbs/hr	kg/h	5,401 (2,450)	6,745 (3,060)	7,584 (3,440)	7,319 (3,320)	8,841 (4,010)	9,480 (4,300)
Packaged ventilation air flow ²⁾	scfm	m ³ /h	20,724 (35,210)	25,956 (44,100)	28,840 (49,000)	27,604 (46,900)	34,526 (58,660)	37,328 (63,420)
Engine coolant capacity (main/aux.) ³⁾	gal.	Litres	48/11 (180/40)	48/11 (180/40)	48/11 (200/50)	53/13 (200/50)	53/13 (200/50)	53/13 (200/50)
Lube oil capacity ³⁾	gal.	Litres	46 (174)	46 (174)	46 (174)	62 (233)	62 (195)	62 (233)
Lube oil consumption ⁴⁾	lbs/bhp.hr	g/kWh	0.00058 (0.35)	0.00058 (0.35)	0.00058 (0.35)	0.00058 (0.35)	0.00058 (0.35)	0.00058 (0.35)

1) Reference gas (CH₄ 62,5%, CO₂: 36 AND N₂: 1,5%) for other biogas qualities consult Guascor Energy Engines

2) Engine performance data acc. to ISO 3046/1

3) Assumes intake air flow at delta T = 5°C including combustion air

4) Not including pipes and heat exchangers

5) Mean lube oil consumption between maintenance steps

G-36SL & G-48SL

Energy Balance	English Units	Metric Units	G-36SL				G-48SL			
Generator efficiency ^{5) 6)}	%	%	96.3	96.2	96.7	96.6	97	96.3		
Electrical power ^{5) 6)}	Btu x 1,000/hr	kWe	485	610	677	647	813	873		
Jacket (HT) water heat	Btu x 1,000/hr	kW	1,498.9 (439)	1,741.4 (510)	1,956.5 (573)	2,161.3 (633)	2,332.0 (683)	2,765.7 (810)		
Intercooler (LT) water heat	Btu x 1,000/hr	kW	99 (29)	102.4 (30)	143.4 (42)	119.5 (35)	170.7 (50)	187.8 (55)		
Exhaust heat - cooled to 120°C	Btu x 1,000/hr	kW	665.8 (195)	921.9 (270)	1,160.9 (340)	1,072.1 (314)	1,242.8 (364)	1,638.9 (480)		
Engine radiation heat	Btu x 1,000/hr	kW	61.5 (18)	102.4 (30)	102.4 (30)	75.1 (22)	112.7 (33)	112.7 (33)		
Generator radiation heat	Btu x 1,000/hr	kW	62.3 (18)	66.7 (21)	78.9 (30)	77.8 (23)	85.8 (25)	112.9 (33)		
Fuel consumption ⁷⁾	Btu x 1,000/hr	kW	4,322.7 (1,266)	5,364.1 (1,571)	6,142.5 (1,799)	6,074.3 (1,785)	7,177.8 (2,102)	8,299.2 (2,428)		
Mechanical efficiency	%		39.7	40.1	38.9	37.5	39.9	37.3		
Electrical efficiency	%		38.7	38.9	37.6	36.3	38.7	36.0		
Thermal efficiency	%		52.4	51.6	53.1	55	52.2	55.4		
Total efficiency	%		90.7	90.4	90.7	91.3	90.9	91.3		

5) At 60 Hz, U = 0.48 kV, power factor = 1

6) At 50 Hz, U = 0.4 kV, power factor = 1

7) With a tolerance of + 5 %

G-36SL & G-48SL

System Parameters	English Units	Metric Units	G-36SL				G-48SL							
Jacket (HT) water temperature max.	°F	°C	194	(90)	194	(90)	194	(90)	194	(90)	194	(90)	194	(90)
Jacket (HT) water flow rate min./max.	gpm	m ³ /hr	132/308	(30/70)	154/308	(35/70)	176/308	(40/70)	194/308	(44/70)	207/308	(48/70)	247/308	(56/70)
Intercooler stages			Double				Double							
Intercooler (LT) coolant temperature max.	°F	°C	131	(55)	131	(55)	131	(55)	131	(55)	131	(55)	131	(55)
Intercooler (LT) coolant flow rate min./max.	gpm	m ³ /hr	66/132	15/30	88/132	20/30	110/132	25/30	66/132	15/30	88/132	20/30	110/132	25/30
Exhaust manifold type			Wet				Wet							
Exhaust temperature	°F	°C	658	(348)	702	(372)	756	(402)	732	(389)	714	(379)	817	(436)
Exhaust mass flow wet	lbs/hr	kg/h	5,908	(2,680)	7,363	(3,340)	8,311	(3,770)	8,047	(3,650)	9,700	(4,400)	10,472	(4,750)
Exhaust back-pressure max.	psi	mbar	0.65	(45)	0.65	(45)	0.65	(45)	0.65	(45)	0.65	(45)	0.65	(45)
Maximum pressure loss in front of air cleaner	psi	mbar	0.073	(5)	0.073	(5)	0.073	(5)	0.073	(5)	0.073	(5)	0.073	(5)
EFuel pressure range	psi	mbar	0.73 - 3.48 (50 - 240)				0.73 - 3.48 (50 - 240)							
Starter battery 2x12 V, capacity required		Ampere-hour	280				280							

Emissions ⁸⁾	English Units	G-36SL			G-48SL		
NOx	g/bhp.hr	< 1	< 1.1	< 1	< 1	< 1.1	< 1
CO	g/bhp.hr	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
THC (in C1base)	g/bhp.hr	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
NMHC (in C1base)	g/bhp.hr	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7

8) With a tolerance of + 5 %

9) Lower emission engines are available, consult Guascor Energy Engines for performance data

G-56SL & G-56SM

Engine Parameters ²⁾	English Units	Metric Units	G-56SL			G-56SM						
			1,200	1,500	1,800	1,500	1,800					
Speed		rpm										
Engine power ²⁾	bhp	kWb	1,057	(788)	1,321	(985)	1,431	(1,067)	1,415	(1,055)	1,475	(1,100)
Cylinder arrangement			V16			V16						
Mean effective pressure	psi	bar	203	(14.0)	203	(14.0)	183	(12.6)	217	(15.0)	189	(13.0)
Bore	inch	mm	6.30	(160)	6.30	(160)	6.30	(160)	6.30	(160)	6.30	(160)
Stroke	inch	mm	6.89	(175)	6.89	(175)	6.89	(175)	6.89	(175)	6.89	(175)
Displacement	cu.in	Litres	3,436	(56.3)	3,436	(56.3)	3,436	(56.3)	3,436	(56.3)	3,436	(56.3)
Mean piston speed	in/s	m/s	276	(7.0)	344	(8.8)	413	(10.5)	344	(8.8)	413	(10.5)
Compression ratio			12,3:1			12,3:1						
Combustion air massflow	lbs/hr	kg/h	8,422	(3,820)	10,251	(4,650)	11,773	(5,340)	10,869	(4,930)	11,464	(5,200)
Packaged ventilation air flow ²⁾	scfm	m ³ /h	32,466	(55,160)	40,582	(68,950)	43,961	(74,690)	43,467	(73,850)	45,321	(77,000)
Engine coolant capacity (main/aux.) ³⁾	gal.	Litres	53/16	(200/60)	53/16	(200/60)	53/16	(200/60)	53/16	(200/60)	53/16	(200/60)
Lube oil capacity ³⁾	gal.	Litres	72	(272)	72	(272)	72	(272)	72	(272)	72	(272)
Lube oil consumption ⁴⁾	lbs/bhp.hr	g/kWh	0.00033	(0.20)	0.00033	(0.20)	0.00033	(0.20)	0.00016	(0.10)	0.00016	(0.10)

1) Reference gas (CH₄ 62,5%, CO₂: 36 AND N₂: 1,5%) for other biogas qualities consult Guascor EnergyEngines

2) Engine performance data acc. to ISO 3046/1

3) Assumes intake air flow at delta T = 5°C including combustion air

4) Not including pipes and heat exchangers

5) Mean lube oil consumption between maintenance steps

G-56SL & G-56SM

Energy Balance	English Units	Metric Units	G-56SL				G-56SM			
Generator efficiency ^{5) 6)}	%	%	96.8	97.2	96.3	97.2	96.9			
Electrical power ^{5) 6)}	Btu x 1,000/hr	kWe	763	957	1,028	1025	1066			
Jacket (HT) water heat	Btu x 1,000/hr	kW	2287.7 (670)	2,748.6 (805)	3062.7 (897)	2093.0 (613)	2284.2 (669)			
Intercooler (LT) water heat	Btu x 1,000/hr	kW	143.4 (42)	181.0 (53)	187.8 (55)	225.4 (66)	266.3 (78)			
Exhaust heat - cooled to 120°C	Btu x 1,000/hr	kW	1072.1 (314)	1,464.8 (429)	2007.7 (588)	2,222.8 (651)	2,550.6 (747)			
Engine radiation heat	Btu x 1,000/hr	kW	112.7 (33)	126.3 (37)	129.7 (38)	177.5 (52)	187.8 (55)			
Generator radiation heat	Btu x 1,000/hr	kW	86.1 (25)	94.2 (28)	134.8 (39)	100.9 (30)	116.4 (34)			
Fuel consumption ⁷⁾	Btu x 1,000/hr	kW	6,740.1 (1,974)	8,413.1 (2,464)	9,638.9 (2,823)	8,880.9 (2,601)	9,635.5 (2,822)			
Mechanical efficiency	%		39.9	40.0	37.8	40.6	39.0			
Electrical efficiency	%		38.6	38.9	36.4	39.4	37.8			
Thermal efficiency	%		52.0	52.2	54.6	51.1	52.9			
Total efficiency	%		90.6	91.1	91.1	90.6	90.7			

5) At 60 Hz, U = 0.48 kV, power factor = 1

6) At 50 Hz, U = 0.4 kV, power factor = 1

7) With a tolerance of + 5 %

G-56SL & G-56SM

System Parameters	English Units	Metric Units	G-56SL				G-56SM					
Jacket (HT) water temperature max.	°F	°C	194	(90)	194	(90)	194	(90)	194	(90)	194	(90)
Jacket (HT) water flow rate min./max.	gpm	m ³ /hr	207/308	(46/70)	247/308	(56/70)	273/308	(62/70)	189/308	(43/70)	203/308	(46/70)
Intercooler stages			Double				Double					
Intercooler (LT) coolant temperature max.	°F	°C	131	(55)	131	(55)	131	(55)	131	(55)	131	(55)
Intercooler (LT) coolant flow rate min./max.	gpm	m ³ /hr	66/132	15/30	88/132	20/30	110/132	25/30	88/132	25/30	110/132	25/30
Exhaust manifold type			Wet				Dry					
Exhaust temperature	°F	°C	671	(355)	721	(383)	813	(434)	927	(497)	984	(529)
Exhaust mass flow wet	lbs/hr	kg/h	9215	(4,180)	11,244	(5,100)	12,919	(5,860)	11,905	(5,400)	12,588	(5,710)
Exhaust back-pressure max.	psi	mbar	0.65	(45)	0.65	(45)	0.65	(45)	0.65	(45)	0.65	(45)
Maximum pressure loss in front of air cleaner	psi	mbar	0.073	(5)	0.073	(5)	0.073	(5)	0.073	(5)	0.073	(5)
EFuel pressure range	psi	mbar	0.73 - 3.48 (50 - 240)				0.73 - 3.48 (50 - 240)					
Starter battery 2x12 V, capacity required	Ampere-hour		280				280					

Emissions ⁹⁾	English Units		G-56SL		G-56SM	
NOx	g/bhp.hr	< 1	< 1.1	< 1	< 1.1	< 1
CO	g/bhp.hr	< 1.8	< 1.8	< 1.8	< 2.2	< 2.2
THC (in C1 base)	g/bhp.hr	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5
NMHC (in C1 base)	g/bhp.hr	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7

9) Lower emission engines are available, consult Guasor Energy Engines for performance data

Dimensions and other data

Dimensions Engine	English Units	Metric Units	G-18SL			G-24SL			G-36SL			G-48SL			G-56SL/G-56SM		
Width	in.	mm	37.205	(945)		37.205	(945)		53.858	(1,368)		53.858	(1,368)		61.024	(1,550)	
Length	in.	mm	79.528	(2,020)		102.835	(2,612)		103.819	(2,637)		123.740	(3,143)		118.110	(3,000)	
Height	in.	mm	57.441	(1,459)		57.441	(1,459)		68.425	(1,738)		68.425	(1,738)		86.614	(2,200)	
Dry weight engine	lb	kg	5,952	(2,700)		7,716	(3,500)		9,259	(4,200)		12,015	(5,450)		12,787	(5,800)	

Dimensions 60 Hz Genset	English Units	Metric Units	G-18SL			G-24SL			G-36SL			G-48SL			G-56SL/G-56SM		
Width	in.	mm	47.244	(1,200)		50.000	(1,270)		65.512	(1,664)		65.512	(1,664)		65.709	(1,669)	
Length	in.	mm	119.055	(3,024)		144.016	(3,658)		150.787	(3,830)		173.071	(4,396)		183.819	(4,669)	
Height	in.	mm	72.677	(1,846)		75.354	(1,914)		83.937	(2,132)		85.984	(2,184)		85.669	(2,176)	
Dry weight genset	lb	kg	8,818	(4,000)		10,891	(4,940)		15,939	(7,230)		20,338	(9,225)		22,046	(10,000)	

Noise emissions*

Engine Noise dB(A)	HZ (Frec. Band)	G-18SL			G-24SL			G-36SL			G-48SL			G-56SL			G-56SM	
		1,200	1,500	1,800	1,200	1,500	1,800	1,200	1,500	1,800	1,200	1,500	1,800	1,200	1,500	1,800	1,500	1,800
125	-	-	-	-	59	72	70	-	70	-	66	73	70	71	76	73	76	73
250	70	73	76	73	82	86	69	81	74	70	83	84	79	92	87	92	87	87
500	82	83	88	79	87	84	76	86	90	76	88	84	81	89	85	89	89	85
1,000	84	87	91	85	90	89	82	88	85	81	90	88	83	89	87	89	89	87
2,000	81	84	87	83	89	87	83	86	87	80	89	89	84	89	91	89	89	91
4,000	76	79	83	77	86	83	79	80	82	73	82	83	79	85	86	85	85	86
LpA, Σ dB(A)	88	90	94	88	95	94	87	92	93	85	95	93	89	97	95	97	97	95

Dimensions and other data

Noise emissions*

Exhaust Noise dB(A)	HZ (Frec. Band)	G-18SL			G-24SL			G-36SL			G-48SL			G-56SL			G-56SM	
63		94	97	99	96	99	101	96	100	102	94	98	99	98	102	102	102	103
125		106	118	128	109	121	131	109	121	131	111	124	127	109	121	125	121	125
250		106	124	128	113	127	131	113	126	131	112	125	114	112	125	134	125	135
500		112	113	120	115	116	123	115	119	126	119	124	130	117	122	128	122	127
1,000		108	112	115	111	115	118	112	117	119	116	121	123	113	118	120	118	120
2,000		109	110	112	113	114	116	113	115	116	117	119	119	113	115	115	115	116
4,000		109	106	105	112	109	108	114	110	110	116	111	112	114	109	110	109	112
LpA, Σ dB(A)		117	126	132	120	128	135	121	129	135	124	130	136	121	129	135	129	136

Notes:

Data obtained according ISO 9614-2

Data obtained @ 1 m from engine according UNE-EN ISO-11203:1996

Maximum data Standard Deviation $s = \pm 4$ dB(A)

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