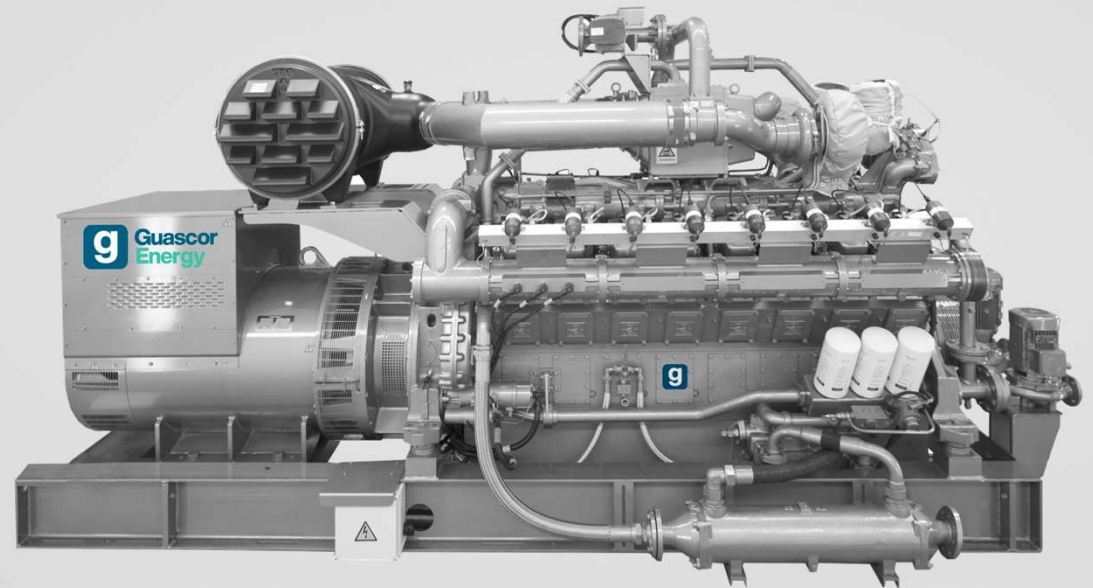


S series gas engines and gen-sets natural gas

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	liter	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 mass flow	lbs/hr	kg/h	2,888	(1,310)	3,483	(1,580)	4,012	(1,820)	3,792	(1,720)	4,586	(2,080)	4,806	(2,180)
Packaged ventilation air flow ²⁾	scfm	m ³ /h	10,383	(17,640)	12,978	(22,050)	14,420	(24,500)	13,802	(23,450)	17,263	(29,330)	18,664	(31,710)
Engine coolant capacity (Main circuit / Aux. circuit) ³⁾	gal.	liter	19/7	(70/25)	19/	(70/25)	19/7	(70/25)	24/7	(90 /25)	24/7	(90/25)	24/7	(90/25)
Lube oil capacity	gal.	liter	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) Natural Gas MN80. LHV 38500 KJ/nNm³ - 970 Btu/SCF for performance on alternate gases consult DR). For other MN consult Guascor Energy

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

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

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)}	kWe	kWe	241	304	336	321	405	435				
Jacket (HT) water heat	Btu x 1,000/hr	kW	621.4 (182)	764.8 (224)	829.7 (243)	932.1 (273)	1,058.5 (310)	1,297.5 (380)				
Intercooler (LT) water heat	Btu x 1,000/hr	kW	140 (41)	136.6 (40)	228.8 (67)	184.4 (54)	204.9 (60)	262.9 (77)				
Exhaust heat - cooled to 120°C	Btu x 1,000/hr	kW	331.2 (97)	450.7 (132)	570.2 (167)	539.5 (158)	600.9 (176)	713.6 (208)				
Engine radiation heat	Btu x 1,000/hr	kW	34.1 (10)	54.6 (16)	51.2 (15)	51.2 (15)	71.7 (21)	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	2,130 (624)	2,653 (777)	3,073 (900)	3,035.4 (859)	3,592 (1,052)	4,124.6 (1,208)				
Mechanical efficiency	%		40.4	40.5	38.9	37.5	39.8	37.5				
Electrical efficiency	%		38.6	39.1	37.4	36.1	38.5	36.0				
Thermal efficiency	%		51.3	51	53	54.6	51.9	55.1				
Total efficiency	%		89.8	90.1	90.4	90.7	90.4	91.2				

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-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	m³/h	110/264	(25/60)	150/264	(34/60)	150/264	(34/60)	167/264	(38/60)	189/264	(43/60)	233/264	(53/60)
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	m³/h	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	651	(344)	702	(372)	747	(397)	747	(397)	709	(376)	768	(409)
Exhaust mass flow wet	lbs/hr	kg/h	2,998	(1,360)	3,616	(1,640)	4,167	(1,890)	3,924	(1,780)	4,762	(2,160)	4,982	(2,260)
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)
Fuel 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 C1 base)	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	English Units	Metric Units	G-36SL						G-48SL					
			rpm		1,200	1,500	1,800	1,200	1,500	1,800				
Speed														
Engine power	bhp	kWb	675	(503)	845	(630)	939	(700)	898	(670)	1124	(838)	1215	(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	liter	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 mass flow	lbs/hr	kg/h	5,578	(2,530)	7,033	(3,190)	7,915	(3,590)	7,250	(3,470)	9,178	(4,163)	9,833	(4,460)
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	(58,600)	37,328	(63,420)
Engine coolant capacity (Main circuit / Aux. circuit) ³⁾	gal.	liter	48/11	(180/40)	48/11	(180/40)	48/11	(180/40)	53/13	(200/50)	53/13	(200/50)	53/13	(200/50)
Lube oil capacity ³⁾	gal.	liter	46	(174)	46	(174)	46	(174)	62	(233)	52	(233)	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) Natural Gas MN80. LHV 38500 KJ/nNm³ - 970 Btu/SCF for performance on alternate gases consult DR). For other MN consult Guascor Energy

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

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-36SL & G-48SL

Energy Balance	English Units	Metric Units	G-36SL				G-48SL			
Generator efficiency ^{6) 7)}	%	%	96.3	96.9	96.7	96.6	97	96.3		
Electrical power ^{6) 7)}	kWe	kWe	485	610	677	647	813	873		
Jacket (HT) water heat	Btu x 1,000/hr	kW	1,495.5 (438)	1,765.3 (517)	2,004.3 (587)	2,175 (637)	2,355.9 (690)	2,799.8 (820)		
Intercooler (LT) water heat	Btu x 1,000/hr	kW	99 (29)	99 (29)	143.4 (42)	119.5 (35)	160.5 (47)	177.5 (52)		
Exhaust heat - cooled to 120°C	Btu x 1,000/hr	kW	645.3 (189)	901.4 (264)	1,106.3 (324)	1,051.6 (308)	1,215.5 (356)	1,597.9 (468)		
Engine radiation heat	Btu x 1,000/hr	kW	58.0 (17)	92.2 (27)	102.4 (30)	68.3 (20)	112.7 (33)	112.7 (33)		
Generator radiation heat	Btu x 1,000/hr	kW	62.3 (18)	66.7 (21)	78.9 (23)	77.8 (23)	85.8 (25)	112.9 (33)		
Fuel consumption ⁷⁾	Btu x 1,000/hr	kW	4,288.5 (1,256)	5,353.8 (1,568)	6,132.3 (1,796)	6,074.3 (1,779)	7,153.2 (2,095)	8,262.9 (2,420)		
Mechanical efficiency	%		40	40.2	39	37.7	40	37.4		
Electrical efficiency	%		38.6	38.9	37.7	36.4	38.8	36.0		
Thermal efficiency	%		52.2	51.7	53	55.1	52.2	55.4		
Total efficiency	%		90.8	90.6	90.8	91.5	91	91.4		

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

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

8) With a tolerance of + 5 %

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

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 /h	132/308	(30/70)	59/308	(36/70)	181/308	(41/70)	194/308	(44/70)	211/308	(48/70)	251/308	(57/70)
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 /h	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)	698	(370)	(738)	(392)	729	(387)	712	(378)	815	(435)
Exhaust mass flow wet	lbs/hr	kg/h	5,776	(2,620)	7,297	(3,310)	8,210	(3,720)	7,937	(3,600)	9,524	(4,320)	10,229	(4,640)
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)
Fuel 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	< 1.1	< 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	< 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	< 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	< 0.7	< 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 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	6.03	(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	liter	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 mass flow	lbs/hr	kg/h	8,664	(3,930)	10,825	(4,910)	12,147	(5,510)	11,266	(5,110)	(11,729)	(5,320)
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 circuit / Aux. circuit) ³⁾	gal.	liter	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.	iter	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) Natural Gas MN80. LHV 38500 KJ/nNm³ - 970 Btu/SCF) for performance on alternate gases consult DR). For other MN consult Guascor Energy

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

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-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)}	kWe	kWe	763	957	1,028	1,025	1,066	
Jacket (HT) water heat (Oil cooler incl.)	Btu x 1,000/hr	kW	2,267.2 (664)	2,755.4 (807)	3,086.6 (904)	2,116.9 (620)	2,352.5 (689)	
Intercooler (LT) water heat	Btu x 1,000/hr	kW	136.6 (40)	170.0 (50)	174.1 (51)	218.5 (64)	239.5 (76)	
Exhaust heat - cooled to 120°C	Btu x 1,000/hr	kW	1,055.1 (309)	1,444.3 (423)	1,976.9 (579)	2,168.2 (635)	2,461.8 (721)	
Engine radiation heat	Btu x 1,000/hr	kW	102.4 (30)	119.5 (35)	129.7 (38)	170.7 (50)	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	6,675.2 (1,955)	8,379 (2,454)	9,604.8 (2,813)	8,826.3 (2,585)	9,591.1 (2,809)	
Mechanical efficiency	%		40.3	40.1	37.9	40.8	39.2	
Electrical efficiency	%		39.0	39.0	36.5	39.7	37.9	
Thermal efficiency	%		51.8	52.2	54.5	51.0	52.9	
Total efficiency	%		90.8	91.2	91.1	90.7	90.8	

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

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

8) 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	m³/h	203/308	(46/70)	247/308	(56/70)	277/308	(63/70)	189/308	(43/70)	211/308	(48/70)
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	m³/h	66/132	(15/30)	88/132	(20/30)	110/132	(25/30)	88/132	(20/30)	110/132	25/30
Exhaust manifold type			Wet				Dry					
Exhaust temperature	°F	°C	675	(357)	716	(308)	819	(437)	923	(495)	982	(528)
Exhaust mass flow wet	lbs/hr	kg/h	8,973	(4,070)	11,222	(5,090)	12,588	(5,710)	11,684	(5,300)	12,192	(5,530)
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)
Fuel 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	< 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	< 2.2	< 2.2	< 2.2	< 2.2
THC (in C1 base)	g/bhp.hr	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 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	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7

9) Lower emission engines are available, consult Guascor Energy 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 (Freq. 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	127	127	109	121	125	121	125	
	250	106	124	128	113	127	131	113	126	131	112	114	114	112	125	134	125	135	
	500	112	113	120	115	116	123	115	119	126	119	130	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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