



**GENERATING SETS POWERED BY CUMMINS ENGINE**

**MAIN SPECIFICATION OF GENERATING SETS(50HZ)**

GENSET MODEL	Open type model	C20	C30	C45	C68	C80	C91	C104	C140	C160	C200	C250	C250-I	C260	C280
	Soundproof model	C20/S	C30/S	C45/S	C68/S	C80/S	C91/S	C104/S	C140/S	C160/S	C200/S	C250/S	C250S-I	C260S	C280/S
Prime output(kw/kva)		20/25	30/37.5	45/56	68/85	80/100	91/114	104/130	140/175	160/200	200/250	250/313	250/313	260/325	280/350
Standby output (kw/kva)		22/27.5	33/42	50/63	75/94	88/110	100/125	114/143	154/193	176/220	220/275	275/344	275/344	286/358	308/385

**Rating Definitions**

**Prime Power Rating**

Applicable for supplying electric power in lieu of commercially purchase power. Prime Power applications must be in the form of one of the following.

**Unlimited Time Running Prime Power**

Prime Power is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime. Power rating during any operating period of 250 hours. The total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

**TECHNICAL DATA**

DIESEL ENGINE MODEL	4B3.9-G2	4BT3.9-G2	4BTA3.9-G2	6BT5.9-G2	6BT5.9-G2	6BTA5.9-G2	6BTA5.9-G2	6CTA8.3-G2	6CTA8.3-G2	6CTAA8.3-G2	6LTA8.9-G2	MTAA11-G3	NTA855-G1B	QSM11-G2	NTA855-G2A
ENGINE CHARACTERS	Water-cooled, in line, 4-stroke, direct injection, wet cylinder liner, 1500rpm														
Prime Output (KW)	24	36	50	92		110	120	163	183	220	282	284	292	310	
Standby Output (KW)	27	40	55	100		120	132	180	203	240	310	321	321	343	
Aspiration	Natural	Turbocharged	Turbo & Intercooler	Turbocharged		Turbo & Intercooler	Turbocharged and air to air aftercooled	Turbo & Intercooler	Turbocharged and air to air aftercooled			Turbo & Intercooler			
NO. of Cylinder	4			6											
Bore x Stroke (mm)	102x120						114x135			114X145	125X147	140X152	125x147	140X152	
Displacement (L)	3.9			5.9			8.3			8.9	10.8	14	10.8	14	
Compression Ratio	16.5:1			17.5:1			16.5:1	16.5:1	16.0:1	16.6:1	15:1	14.0:1	16.3:1	14.0:1	
Frequency Regulation, Stead State	Mechanical Speed governing ratio 5% , Electronic Speed governing ratio 1%														
Exhaust Gas Temperature (°C)	380	463	460	520	526	540	481	536	500	430	435	485	525	553	
Rated Fuel Consumption@100% Load (L/h)	6.7	9.3	13.1	20	22	27	30	40	45.4	53	61	71.4	69	72	
Rated Fuel Consumption@75% Load (L/h)	5.2	7.3	9.8	15	17	20	23	30	34.0	39	48	54.3	52	55	
Rated Fuel Consumption@50% Load (L/h)	4.0	5.3	6.7	10	11	14	16	20	23.3	27	31	38.2	34	39	
Lub Oil Capacity (L)	11			16.4			24			27.6	39	38.6	36.7	38.6	
Lube Consumption (g/kw.h)	<1 with 100h of operation , <0.4 after 100h of operation														
Genset Water Coolant Capacity	18			22			24.5			28	54	66	54	66	
Alternator Model	SLG184F	SLG184H	SLG224E	SLG224G	SLG274C	SLG274D	SLG274E	SLG274G	SLG274H	SLG274K	SLG314E	SLG314E	SLG314E	SLG314EL	
Prime Output (KW/KVA)	22/27.5	30/37.5	48/60	68/85	80/100	91/114	112/140	140/175	160/200	200/250	260/325		280/350		
Power Efficiency	85.8%	90%	88.60%	90.20%	90.40%	90.80%	91.70%	92.50%	93.30%	92%	93%		92.60%		
CHARACTERS	4 Pole, Rotating Field, Brushless, Self excited, H class insulation, IP21, AVR 440 , 12 WINDING LEADS.														
Voltage Regulation	±1.0% with 4% engine governing														
Waveform Distortion	No load <1.5% and non-distorting balanced linear load <5%														
THF/TIF	<2%/<50														
Soundproof Type Dimensions (LXWXH) m	1.7x0.85x1.25	1.8x0.85x1.32	1.9x0.85x1.4	2.35x0.9x1.45	2.25x0.94x1.45		2.35x0.95x1.45	2.4x0.95x1.62	2.55x1.05x1.64	2.6x1.05x1.68	3x1.15x1.75		3.35x1.2x1.9		
Weight (KG) (2)	876	893	930	1450	1460	1500	1550	1950	2050	2200	2650	3150		3250	
Open Type Dimensions (LXWXH) m	2.3x1.1x1.21			2.8x1.1x1.47			2.8x1.1x1.8		3x1.2x1.8	3.3x1.3x2	3.9x1.6x2.27				
Weight (KG)	1280	1300	1480	1900	2300		2350	3000		3350	3900	4000		4100	
Fuel Tank Capacity (L)	160			250			300		360	450	800				

Notes: (1) Also available in the following voltages: 220/380V, 254/440V, 240/416V, 127/220V, 120/208V;  
 (2) The weights are approximate and without fuel.  
 (3) In line with our policy of continuous product development, we reserve the right to change specification without notice.



GENERATING SETS POWERED BY CUMMINS ENGINE

MAIN SPECIFICATION OF GENERATING SETS(50HZ)

Table with 16 columns: GENSET MODEL, Open type model, C300, C360, C360-I, C400, C400-I, C500, C520, C600, C640, C720, C800, C900, C1000, C1200. Rows include Prime output and Standby output.

Rating Definitions

Standby Power Rating

Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the Standby Power rating.

TECHNICAL DATA

Large technical data table with 16 columns for Diesel Engine Models (NTAA855-G7 to KTA50-GS8) and 16 rows for various engine and alternator specifications.

- Notes: (1)Also available in the following voltages: 220/380V, 254/440V, 240/416V, 127/220V, 120/208V; (2)The weights are approximate and without fuel. (3)In line with our policy of continuous product development, we reserve the right to change specification without notice.



**GENERATING SETS POWERED BY CUMMINS ENGINE**

**MAIN SPECIFICATION OF GENERATING SETS(60HZ)**

GENSET MODEL	Open type model	C22	C34	C50	C85	C100	C110	C134	C160	C200	C250	C280
	Soundproof model	C22/S	C34/S	C50/S	C85/S	C100/S	C110/S	C134/S	C160/S	C200/S	C250/S	C280/S
Prime output(kw/kva)		22/28	34/43	50/62.5	85/106	100/125	110/138	134/168	160/200	200/250	250/312	280/350
Standby output (kw/kva)		24/30	40/50	55/69	94/118	110/138	120/150	145/180	170/212	220/275	275/344	308/385

**Rating Definitions**

**Prime Power Rating**

Applicable for supplying electric power in lieu of commercially purchase power. Prime Power applications must be in the form of one of the following.

**Unlimited Time Running Prime Power**

Prime Power is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime. Power rating during any operating period of 250 hours. The total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

**TECHNICAL DATA**

DIESEL ENGINE MODEL	4B3.9-G2	4BT3.9-G2	4BTA3.9-G2	6BT5.9-G2	6BTA5.9-G2	6BTA5.9-G2	6CTA8.3-G2	6CTA8.3-G2	6LTA8.9-G2	NTA855-G1	NTA855-G1B
ENGINE CHARACTERS	Water-cooled, in line, 4-stroke, direct injection, wet cylinder liner, 1800rpm										
Prime Output (KW)	27	40	60	100	120	130	175	175	240	287	313
Standby Output (KW)	30	45	65	110	132	145	190	190	264	317	347
Aspiration	Natural	Turbocharged	Turbo & Intercooler	Turbocharged	Turbo & Intercooler	Turbocharged and air to air aftercooled	Turbo & Intercooler		Turbocharged and air to air aftercooled	Turbo & Intercooler	
NO. of Cylinder	4			6							
Bore x Stroke (mm)	102x120						114x135		114X145	140X152	
Displacement (L)	3.9			5.9			8.3		8.9	14	
Compression Ratio	16.5:1			17.5:1		16.5:1	16.5:1		16.6:1	14.0:1	
Frequency Regulation, Stead State	Mechanical Speed governing ratio 5% , Electronic Speed governing ratio 1%										
Exhaust Gas Temperature (°C)	365	445	442	506	509	463	515	515	413	460	466
Rated Fuel Consumption@100% Load (L/h)	7.6	10.5	15	25.3	31	35	38.6	46	61	73.4	82
Rated Fuel Consumption@75% Load (L/h)	5.8	8.4	11.3	19.6	23	26.5	29	34.5	45	56.1	62.5
Rated Fuel Consumption@50% Load (L/h)	4.5	6.1	7.7	12.6	16	18.5	19.5	23	31	38.4	44
Lub Oil Capacity (L)	11			16.4			24		27.6	38.6	
Lube Consumption (g/kw.h)	<1 with 100h of operation , <0.4 after 100h of operation										
Genset Water Coolant Capacity	18			22			24.5		28	66	
Alternator Model	SLG184E	SLG184H	SLG224D	SLG274C	SLG274D	SLG274D	SLG274E	SLG274G	SLG274H	SLG314D	SLG314D
Prime Output (KW/KVA)	23/28.8	37.5/46.9	50/62.5	94/118	110/138	110/138	134/168	174.8/218.5	196/245	280/350	280/350
Power Efficiency	85.8%	90.0%	88.6%	90.4%	90.8%	90.8%	92.5%	93.3%	92.0%	92.0%	93.0%
CHARACTERS	4 Pole, Rotating Field, Brushless, Self excited, H class insulation, IP21, AVR 440 , 12 WINDING LEADS.										
Voltage Regulation	± 1.0% with 4% engine governing										
Waveform Distortion	No load <1.5% and non-distorting balanced linear load <5%										
THF/TIF	<2% / <50										
Soundproof Type Dimensions (LXWXH) m	1.7x0.85x1.25	1.8x0.85x1.3	1.9x0.85x1.4	2.25x0.94x1.45		2.35x0.95x1.45	2.55x1x1.62	2.55x1x1.62	2.55x1.05x1.64	3.35x1.2x1.9	3.35x1.2x1.9
Weight (KG) (2)	876	893	930	1460	1500	1550	1950	2050	2200	3150	3150
Open Type Dimensions (LXWXH) m	2.3x1.1x1.21			2.8x1.1x1.47			2.8x1.1x1.8	3x1.2x1.8	3.3x1.3x2.0	3.9x1.6x2.27	
Weight (KG)	1280	1300	1480	2300		2350	3000		3350	4000	4000
Fuel Tank Capacity (L)	45			70			80		95	210	

**Notes:** (1)Also available in the following voltages: 220/380V, 254/440V, 240/416V, 127/220V, 120/208V;  
 (2)The weights are approximate and without fuel.  
 (3)In line with our policy of continuous product development, we reserve the right to change specification without notice.



**GENERATING SETS POWERED BY CUMMINS ENGINE**

**MAIN SPECIFICATION OF GENERATING SETS(60HZ)**

GENSET MODEL	Open type model	C315	C350	C410	C450	C540	C620	C725	C800	C900	C1000	C1100	C1250
	Soundproof model	C315/S	C350/S	C410/S	C450/S	C540/S	C620/S	C725/S	C800/S	C900/S	C1000/S	C1100/S	C1250/S
Prime Output(kw/kva)		315/394	350/437	410/512.5	450/562	540/675	620/775	725/906	800/1000	900/1125	N/A	1100/1375	1250/1562
Standby Output (kw/kva)		350/438	385/480.7	451/564	500/625	600/750	682/852.5	800/1000	880/1100	990/1237.5	1100/1375	1210/1512	1375/1718

**Rating Definitions**

**Standby Power Rating**

Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the Standby Power rating. This rating should be applied where reliable utility is available. A Standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating. Standby ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered an emergency. The alternator on this model is peak continuous rated (as defined in ISO8528-3) at 27 C.

**TECHNICAL DATA**

DIESEL ENGINE MODEL	NTA855-G3	KTA19-G2	KTA19-G3	KTA19-G4 KTA19-G3A	KTAA19-G6A	KT38-G	KTA38-G2	KTA38-G2A	KTA38-G4	KTA38-G9	KTA50-G3	KTA50-G9	
ENGINE CHARACTERS	Water-cooled, in line, 4-stroke, direct injection, wet cylinder liner, 1800rpm												
Prime Output (KW)	358	392	463	507	577	679	809	915	1007	N/A	1220	1384	
Standby Output (KW)	399	448	511	563	664	747	895	1007	1112	1220	1380	1657	
Aspiration	Turbo & Intercooler					Turbocharged air to air aftercooled	Turbocharged	Turbo & Intercooler					
NO. of Cylinder	6					12				16			
Bore x Stroke (mm)	140X152	159X159											
Displacement (L)	14	18.9					37.8				50.3		
Compression Ratio	14.0:1	14.5:1	13.9:1	14.5:1	13.0:1	13.9:1				13.0:1	13.9:1		
Frequency Regulation, Stead State	Mechanical Speed governing ratio 5% , Electronic Speed governing ratio 1%												
Exhaust Gas Temperature (°C)	521	493	471	481	584	479	485	485	499	529	529	470	
Rated Fuel Consumption@100% Load (L/h)	87	98	111	120	140	154	204	225	245	256	291	330	
Rated Fuel Consumption@75% Load (L/h)	66	76	86	92	106.5	118	157	164	190	196	222	257	
Rated Fuel Consumption@50% Load (L/h)	47	56	61	65	73.2	84	111	115	136	140	157	180	
Lub Oil Capacity (L)	38.6	50.0	45.4	50.0	45.4	50		135					
Lube Consumption (g/kw.h)	<1 with 100h of operation , <0.4 after 100h of operation												
Genset Water Coolant Capacity	66	120			128	312				326	351	315	
<b>Alternator Model</b>	<b>SLG314E</b>	<b>SLG314F</b>	<b>SLG354C</b>	<b>SLG354D</b>	<b>SLG354E</b>	<b>SLG354F</b>	<b>SLG404G</b>	<b>SLG404H</b>	<b>SLG404J</b>	<b>SLG404K</b>	<b>SLG454A</b>	<b>SLG454B</b>	
Prime Output (KW/KVA)	315/394	365/456	440/550	475/594	570/713	620/775	740/925	850/1063	900/1125	1000/1250	1100/1375	1352/1690	
Power Efficiency	92.6%	92.6%	93.0%	94.1%	94.9%	94.9%	93.7%	95.4%	94.7%	94.9%	95.20%	95.6%	
CHARACTERS	4 Pole, Rotating Field, Brushless, Self excited, H class insulation, IP21, AVR 440 , 12 WINDING LEADS.												
Voltage Regulation	± 1.0% with 4% engine governing												
Waveform Distortion	No load < 1.5% and non-distorting balanced linear load < 5%												
THF/TIF	< 2% / < 50												
Soundproof Type Dimensions (LXWXH) m	3.35x1.2x1.9	3.5x1.36x2.09			3.75x1.75x2.45		4.4x2.06x2.45			4.98x2.2x2.48			
Weight (KG) (2)	3150	4200		4300	4650	6900		7500		11900	12500	13000	
Open Type Dimensions (LXWXH) m	4.2x1.46x2.16	4.1x1.5x2.2			4.8x1.8x2.2		5.8x2.26x2.5			5.8x2.26x2.5			
Weight (KG)	4000	5400		5500	6500	8500		9000		13500	19000	20000	
Fuel Tank Capacity (L)	210	265		265	400								

- Notes:** (1) Also available in the following voltages: 220/380V, 254/440V, 240/416V, 127/220V, 120/208V;  
 (2) The weights are approximate and without fuel.  
 (3) In line with our policy of continuous product development, we reserve the right to change specification without notice.