DIESEL AND GAS GENERATING SETS

Power outputs are to ISO 8528
Voltage (50Hz)
single phase: 220-230-240 V
three-phase: 380/220, 400/230, 415/240 V
Power Factor: single-phase: 1.0 pf; three-phase:0.8 pf.

Genset Rating Definitions to ISO 8528-1

Operating Conditions: A standard generating set is designed to operate in environmental conditions not exceeding an air inlet temperature of 25 C (77 F), altitude (above sea level) 152.4 metres (500 feet) and a relative humidity of 60%.

Prime Power: This rating is for the supply of continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation on the annual hours of operation and 10% overload power can be supplied for 1 hour in 12 hours.

Standby Power: This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted.

50 Hz

DIESEL — **GAS**

AIR COOLED — **LIQUID COOLED**

LISTER PACK

AD1

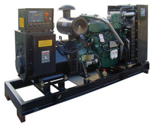
HSL OPEN SET

HSL AND LLD (ALPHA) ACOUSTIC SET

LLD (ALPHA) OPEN SETS

DELTA ACOUSTIC SET

GAMMA ACOUSTIC SET


LLO (OMEGA) OPEN SET

GS (ALPHA) GAS GENSET

Air cooled (K Series, AD, T Series)

Genset Type – Model code	LLP 2.8	LLP 4.5	AD1	HSL 8	HSL 8A	HSL 15	HSL 15A	HSL 24	HSL 24A
Engine series	K Series		AD	T Series					
Open set = O; acoustic set = A	A	A	O	O	A	O	A	O	A
Engine model	ZA296	ZA418	AD1	TR1		TR2		TR3	
50 Hz – 1500 r/min – Single phase – Prime – kVA				4.1	4.1	8.6	8.6	14.0	14.0
50 Hz – 1500 r/min – Single phase – Prime – kWe				4.1	4.1	8.6	8.6	14.0	14.0
50 Hz – 1500 r/min – Single phase – Standby – kVA				4.5	4.5	9.4	9.4	15.4	15.4
50 Hz – 1500 r/min – Single phase – Standby – kWe				4.5	4.5	9.4	9.4	15.4	15.4
50 Hz – 1500 r/min – Three phase – Prime – kVA				5.3	5.3	11 2	11 2	18.1	18.1
50 Hz – 1500 r/min – Three phase – Prime – kWe				4.3	4.3	9.0	9.0	14.5	14.5
50 Hz – 1500 r/min – Three phase – Standby – kVA				5.9	5.9	12 3	12.3	19.9	19.9
50 Hz – 1500 r/min – Three phase – Standby – kWe				4.7	4.7	9.9	9.9	15.9	15.9
50 Hz – 3000 r/min (1) – Single phase – Prime – kVA/kWe	2.8	4.5	4.0						
50 Hz – 3000 r/min (1) – Single phase – Standby – kVA/kWe	3.1	5.0	4.4						
50 Hz – 3000 r/min (1) – Three phase – Prime – kVA									
50 Hz – 3000 r/min (1) – Three phase – Prime – kWe									
50 Hz – 3000 r/min (1) – Three phase – Standby – kVA									
50 Hz – 3000 r/min (1) – Three phase – Standby – kWe									
Engine – Cylinders – Number of cylinders	1	1	1	1	1	2	2	3	3
Engine – Injection – D-direct, I=indirect	D	D	D	D	D	D	D	D	D
Engine – Aspiration – N=natural T=turbo I=intercooled	N	N	N	N	N	N	N	N	N
Engine – Governing – M=mechanical, E=electronic	M	M	M	M	M	M	M	M	M
Alternator – Single bearing, brushless, solid state AVR, class H insulation, P21-3 protection	Yes Class B	Yes Class B	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery – Battery and leads supplied	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Control System – Electronic digital control module, automatic shutdown protection, manual/ remote or AMF modes	Yes (No remote or AMF)	Yes (No remote or AMF)	No	Yes	Yes	Yes	Yes	Yes	Yes
Control System – Emergency stop button(s)	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Noise Rating – At 75% load – dBA at 1 m			N/D	N/D	N/D	N/D	N/D	N/D	N/D
Noise Rating – At 75% load – dBA at 7 m	78	78	N/D		64		64		64
Silencers – E=engine-mounted, R=residential, ( )=optional	R	R	N/D	E (R)	R	E (R)	R	E (R)	R
Weight – kg	140	158	125	358	555	428	625	518	715
Weight – lb	308	348	275	789	1224	943	1378	1142	1576
Length – mm	830	910	760	1442	1693	1442	1693	1442	1693
Length – in	32	35	29.9	56.8	56.8	56.8	66.6	56.8	66.6
Width – mm	532	532	480	715	743	715	743	715	743
Width – in	20	20	18.9	28.1	29 2	28.1	29.2	28.1	29.2
Height – mm	740	740	600	1020	1143	1020	1143	1020	1143
Height – in	29	29	23.6	40 2	45.0	40 2	45.0	40.2	45.0

Liquid cooled diesel – Alpha Series

Genset Type – Model code	LLD 95	LLD 95A	LLD 135	LLD 140	LLD 140A	LLD 200	LLD 190	LLD 190A	LLD 275	LLD 250	LLD 250A	LLD 400
Engine series	Alpha Series											
Open set = O; acoustic set = A	O	A	O	O	A	O	O	A	O	O	A	O
Engine model	LPW(S)2			LPW(S)3			LPW(S)4			LPW(S)T4 [2]		LPWT4
50 Hz – 1500 r/min – Single phase – Prime – kVA	5.6	5.6		8.7	8.7		12.2	12 2		16.1	16.1	
50 Hz – 1500 r/min – Single phase – Prime – kWe	5.6	5.6		8.7	8.7		12.2	12 2		16.1	16.1	
50 Hz – 1500 r/min – Single phase – Standby – kVA	6.1	6.1		9.5	9.5		13.5	13 5		17.7	17.7	
50 Hz – 1500 r/min – Single phase – Standby – kWe	6.1	6.1		9.5	9.5		13.5	13 5		17.7	17.7	
50 Hz – 1500 r/min – Three phase – Prime – kVA	7.0	7.0		10.9	10.9		15.0	15.0		20.0	20.0	
50 Hz – 1500 r/min – Three phase – Prime – kWe	5.6	5.6		8.7	8.7		12.0	12.0		16.0	16.0	
50 Hz – 1500 r/min – Three phase – Standby – kVA	7.6	7.6		12.0	12.0		16.5	16 5		22.0	22.0	
50 Hz – 1500 r/min – Three phase – Standby – kWe	6.1	6.1		9.6	9.6		13.2	13 2		17.6	17.6	
50 Hz – 3000 r/min (1) – Single phase – Prime – kVA/kWe			10 2			15.4[4]			20.9[5]			
50 Hz – 3000 r/min (1) – Single phase – Standby – kVA/kWe			11 2			16 9[4]			23.0[5]			
50 Hz – 3000 r/min (1) – Three phase – Prime – kVA			13.7			20 3[4]			28.1[5]			39.5
50 Hz – 3000 r/min (1) – Three phase – Prime – kWe			11.0			16 3[4]			22.5[5]			31.6
50 Hz – 3000 r/min (1) – Three phase – Standby – kVA			15.1			22.4[4]			30.9[5]			43.5
50 Hz – 3000 r/min (1) – Three phase – Standby – kWe			12.1			17 9[4]			24.8[5]			34.8
Engine – Cylinders – Number of cylinders	2	2	2	3	3	3	4	4	4	4	4	4
Engine – Injection – D-direct, I=indirect	D(I)	D(I)	D(I)	D(I)	D(I)	D(I)	D(I)	D(I)	D(I)	D (I)	D	D
Engine – Aspiration – N=natural T=turbo I=intercooled	N	N	N	N	N	N	N	N	N	T	T	T
Engine – Governing – M=mechanical, E=electronic	M	M	M	M	M	M	M	M	M	M	M	M
Alternator – Single bearing, brushless, solid state AVR, class H insulation, P21-3 protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery – Battery and leads supplied	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Control System – Electronic digital control module, automatic shutdown protection, manual/ remote or AMF modes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Control System – Emergency stop button(s)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Noise Rating – At 75% load – dBA at 1 m	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
Noise Rating – At 75% load – dBA at 7 m		64			64			65			62[3]	
Silencers – E=engine-mounted, R=residential, ( )=optional	E (R)	R	E (R)	E (R)	R	E (R)	E (R)	R	E (R)	E (R)	R	E (R)
Weight – kg	396	500	396	417	540	417	456	580	456	466	590	466
Weight – lb	873	1102	873	919	1190	919	1005	1279	1005	1027	1301	1027
Length – mm	1442	1693	1442	1442	1693	1442	1442	1693	1442	1442	1693	1442
Length – in	56.8	66.6	56.8	56.8	66.6	56.8	56.8	66.6	56.8	56.8	66.6	56.8
Width – mm	715	743	715	715	743	715	715	743	715	715	743	715
Width – in	28.1	29 2	28.1	28.1	29.2	28.1	28.1	29 2	28.1	28.1	29.2	28.1
Height – mm	997	1143	997	997	1143	997	997	1143	997	997	1143	997
Height – in	39 3	45.0	39 3	39.3	45.0	39.3	39.3	45.0	39 3	39 3	45.0	39.3

Liquid cooled diesel – Delta, Gamma and Omega Series

Genset Type – Model code	LLD 410	LLD 410A	LLG 50	LLG 50A	LLG 70	LLG 70A	LLG 100	LLG 100A	LLG 110	LLG 110A	LLG 140	LLG 140A	LLO 200 /		
Engine series	Delta Series		Gamma Series										Omega Series		
Open set = O; acoustic set = A	O	A	O	A	O	A	O	A	O	A	O	A	175	200	225
Engine model	DWS4		GW4		GWT4		GWT6-1A		GWT6-2A		GWTA6		OWTA6		
50 Hz – 1500 r/min – Single phase – Prime – kVA															
50 Hz – 1500 r/min – Single phase – Prime – kWe															
50 Hz – 1500 r/min – Single phase – Standby – kVA															
50 Hz – 1500 r/min – Single phase – Standby – kWe															
50 Hz – 1500 r/min – Three phase – Prime – kVA	30.0	30.0	45	45	63	63	90	90	100	100	125	125	175	200	225
50 Hz – 1500 r/min – Three phase – Prime – kWe	24.0	24.0	36	36	50	50	72	72	80	80	100	100	140	160	180
50 Hz – 1500 r/min – Three phase – Standby – kVA	33.0	33.0	50	50	69	69	100	100	110	110	138	138	193	220	248
50 Hz – 1500 r/min – Three phase – Standby – kWe	26.4	26.4	40	40	55	55	80	80	88	88	110	110	154	176	198
50 Hz – 3000 r/min (1) – Single phase – Prime – kVA/kWe															
50 Hz – 3000 r/min (1) – Single phase – Standby – kVA/kWe															
50 Hz – 3000 r/min (1) – Three phase – Prime – kVA															
50 Hz – 3000 r/min (1) – Three phase – Prime – kWe															
50 Hz – 3000 r/min (1) – Three phase – Standby – kVA															
50 Hz – 3000 r/min (1) – Three phase – Standby – kWe															
Engine – Cylinders – Number of cylinders	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6
Engine – Injection – D-direct, I=indirect	I	I	D	D	D	D	D	D	D	D	D	D	D	D	D
Engine – Aspiration – N=natural T=turbo I=intercooled	N	N	N	N	T	T	T	T	T	T	T, I	T, I	T,I	T,I	T, I
Engine – Governing – M=mechanical, E=electronic	M	M	M	M	M	M	M	M	M	M	E	E	E	E	E
Alternator – Single bearing, brushless, solid state AVR, class H insulation, P21-3 protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery – Battery and leads supplied	Yes	Yes	Leads only		Leads only		Leads only		Leads only		Leads only		Yes	Yes	Yes
Control System – Electronic digital control module, automatic shutdown protection, manual/ remote or AMF modes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Control System – Emergency stop button(s)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Noise Rating – At 75% load – dBA at 1 m	N/D	N/D	N/D	77	N/D	77	N/D	76	N/D	76	N/D	76	97	97	97
Noise Rating – At 75% load – dBA at 7 m		70	N/D	66	N/D	66	N/D	66	N/D	66	N/D	66	87	87	87
Silencers – E=engine-mounted, R=residential, ( )=optional	E	R	(E)	R	(E)	R	(E)	R	(E)	R	(E)	R	(E)	(E)	(E)
Weight – kg	592	820	1193	1686	1431	1921	1860	2493	1860	2493	1876	2509	2000	2100	2200
Weight – lb	1305	1808	2630	3717	3155	4235	4101	5496	4101	5496	4136	5531	4400	4620	4840
Length – mm	1600	2000	2200	2645	2200	2645	2640	3366	2640	3366	2640	3366	2790	2790	2790
Length – in	63.0	78.9	86.6	104.1	86.6	104.1	103 9	132.5	103.9	132.5	103.9	132.5	110	110	110
Width – mm	700	850	996	1000	996	1000	1093	1100	1093	1100	1093	1100	870	870	870
Width – in	27 5	33.5	39 2	39.4	39.2	39.4	43.0	43.3	43.0	43 3	43.0	43 3	34	34	34
Height – mm	1110	1300	1527	1643	1527	1643	1677	1949	1677	1949	1677	1949	1600	1600	1600
Height – in	43.7	51.1	60.1	64.7	60.1	64.7	66.0	76.7	66.0	76.7	66.0	76.7	63	63	63

Gas – Alpha Gas Gensets

Genset Type – Model code	GS 10N		GS 12P		GS 15N		GS 17P	
Engine series	Alpha Gas Gensets							
Open set = O; acoustic set = A	O	A	O	A	O	A	O	A
Engine model	LPWG3		LPWG3		LPWG4		LPWG4	
50 Hz – 1500 r/min – Single phase – Prime – kVA	7.4	7.4	8.4	8.4	10.3	10.3	11.7	11.7
50 Hz – 1500 r/min – Single phase – Prime – kWe	7.4	7.4	8.4	8.4	10.3	10.3	11.7	11.7
50 Hz – 1500 r/min – Single phase – Standby – kVA	8.1	8.1	9.2	9 2	11.3	11.3	12.8	12.8
50 Hz – 1500 r/min – Single phase – Standby – kWe	8.1	8.1	9.2	9 2	11.3	11.3	12.8	12.8
50 Hz – 1500 r/min – Three phase – Prime – kVA	9.3	9.3	10.6	10.6	12.8	12.8	14 5	14 5
50 Hz – 1500 r/min – Three phase – Prime – kWe	7.4	7.4	8.4	8.4	10.4	10.4	11.8	11.8
50 Hz – 1500 r/min – Three phase – Standby – kVA	10 2	10 2	11.7	11.7	14.0	14.0	15 9	15 9
50 Hz – 1500 r/min – Three phase – Standby – kWe	8.1	8.1	9.3	9 3	11.4	11.4	12 9	12 9
50 Hz – 3000 r/min (1) – Single phase – Prime – kVA/kWe								
50 Hz – 3000 r/min (1) – Single phase – Standby – kVA/kWe								
50 Hz – 3000 r/min (1) – Three phase – Prime – kVA								
50 Hz – 3000 r/min (1) – Three phase – Prime – kWe								
50 Hz – 3000 r/min (1) – Three phase – Standby – kVA								
50 Hz – 3000 r/min (1) – Three phase – Standby – kWe								
Engine – Cylinders – Number of cylinders	3	3	3	3	4	4	4	4
Engine – Injection – D-direct, I=indirect	N/A: Spark ignition							
Engine – Aspiration – N=natural T=turbo I=intercooled	N	N	N	N	N	N	N	N
Engine – Governing – M=mechanical, E=electronic	E	E	E	E	E	E	E	E
Alternator – Single bearing, brushless, solid state AVR, class H insulation, P21-3 protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery – Battery and leads supplied	Leads only		Leads only		Leads only		Leads only	
Control System – Electronic digital control module, automatic shutdown protection, manual/ remote or AMF modes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Control System – Emergency stop button(s)	Option		Option		Option		Option	
Noise Rating – At 75% load – dBA at 1 m	N/D		N/D		N/D		N/D	
Noise Rating – At 75% load – dBA at 7 m	N/D	65	N/D	65	N/D	66	N/D	66
Silencers – E=engine-mounted, R=residential, ( )=optional	E	R	E	R	E	R	E	R
Weight – kg	290	367	290	367	417	513	417	513
Weight – lb	640	810	640	810	920	1130	920	1130
Length – mm	1480	1693	1480	1693	1480	1693	1480	1693
Length – in	58 3	66.6	58.3	66.6	58.3	66.6	58 3	66.6
Width – mm	711	743	711	743	711	743	711	743
Width – in	28	29 2	28	29.2	28	29.2	28	29 2
Height – mm	1029	1143	1029	1143	1029	1143	1029	1143
Height – in	40 5	45.0	40.5	45.0	40.5	45.0	40 5	45.0

Key to Emissions Compliance

Emissions compliance
EU Stage 3A only
EU Stage 3A, India GSR 448(E)
EU Stage 3A, USA EPA Interim Tier 4 and India GSR 448(E)

Lister Petter alternators are standard. N/A = not applicable; N/D = no data available; TBA = to be announced
[1] 50 Hz, 3000 r/min outputs are based on Mecc Alte Alternators; [2] Weight and dimensions for LPWST4 vary from LPWT4; [3] 59.2 dBA for LPWST4; [4] LPWS3 only; [5] LPWS4 only.

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