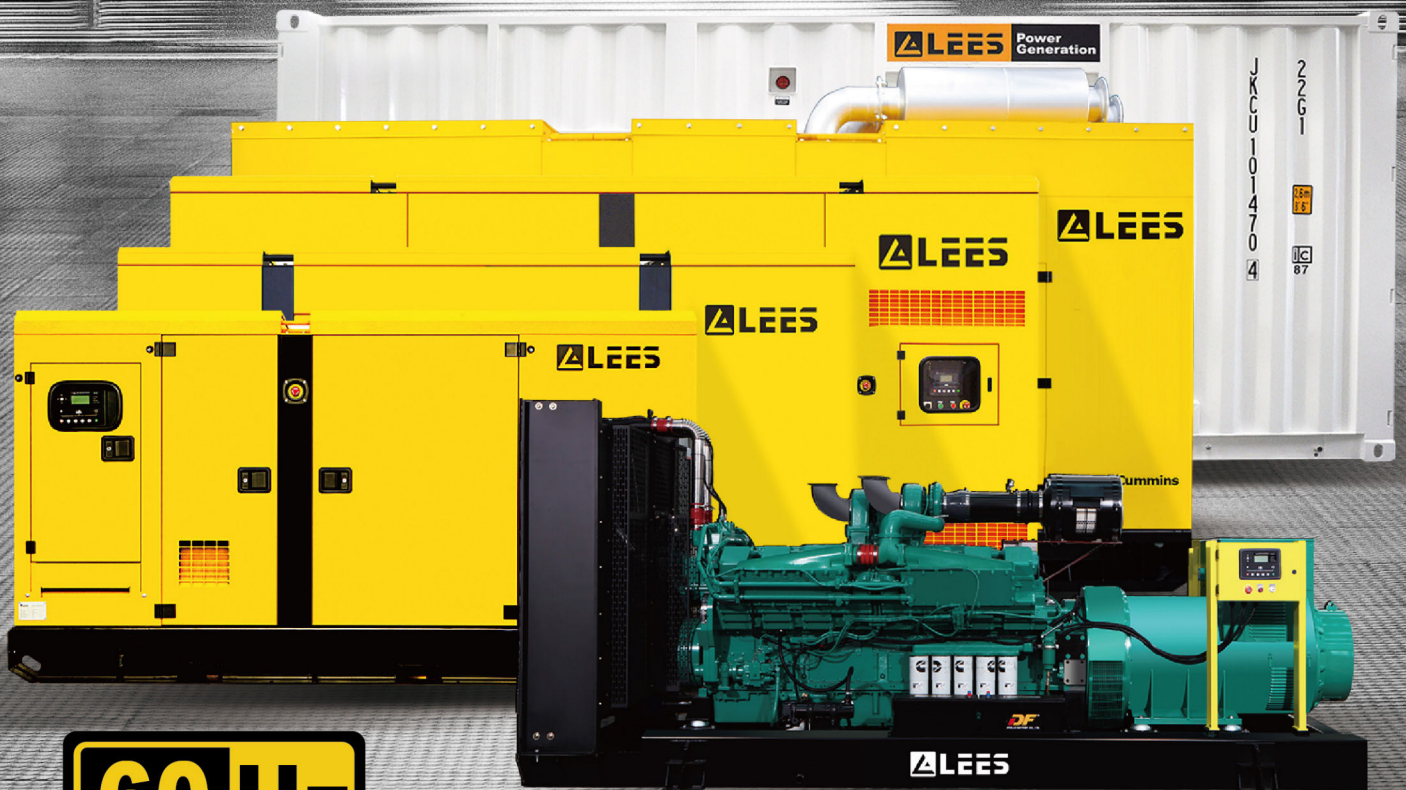




# LEES CUMMINS SERIES GENERATORS

*Comprehensive  
Power Solutions*



**60 Hz**

# About

LEES Cummins series gensets have a wide power range from 24~2500KVA, which have open type, silent type, trailer type and container type.

LEES Cummins series generators are widely used in industrial, commercial, backup, primary power source and outdoors project work and so on.

## WHY DO YOU CHOOSE LEES CUMMINS SERIES GENERATOR?

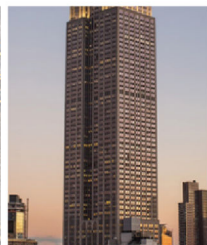
- **Performance:** Best engines ensure the best performance and the strongest power, which make sure gensets work smoothly.
- **Customer service:** Reliable Cummins global after sale service, which make sure customers have a worry free experience.
- **Optimization:** LEES make some improvements for the cummins engines, which make the engines more suitable for generators.
- **Silence:** LEES take use of two-step silencing with 5 cm thickness and high density mute cotton to low the noise. The generators could reach at 60 dbA/7m without loading and 62-65 dbA/7m with full loading.
- **Elegance:** LEES Cummins generators appearance is very fashionable and beautiful, with bright yellow color, which makes the gensets high recognition. Waterproof canopy use 2mm cold-rolled steel with powder coated painting to produce.
- **Intelligence:** LEES use world famous brand Deepsea controller to control and protect the genset. Push-to-start is very convenient.
- **Design and Details:** Considerate design is the aims and objectives. To make customers satisfied and optimize customers' experience, LEES focus on every detail and review every improvement at regular intervals. We will review the generator at least 3 times before the product get in market. At present, LEES have make the changes and improvements on anti-collision rubber, stainless screws, doors, baseframe, wiring ways, oil drain valve and so on.



## OUR APPLICATIONS



Mining



Building



Factory



Power plant



Outdoor working



Energy



Data center

# Cummins 60 Hz

## 60Hz | Three Phase

Model	LSC2853-6	LSC3553-6	LSC3853-6	LSC5053-6	LSC7553-6	LSC9653-6	LSC12553-6	LSC14553-6	LSC16553-6
Prime Power (kVA)	25	32	35	45	68	84	113	130	150
Standby Power (kVA)	28	35	38	50	75	96	125	145	165
Prime Power (kW)	20	26	28	36	54	67	90	104	120
Standby Power (kW)	22	28	30	40	60	77	100	116	132
Rated Frequency (Hz)	60	60	60	60	60	60	60	60	60
Rated Voltage (V)	220/240/416/440/480								
Rated Current (A)	34.7	44.4	48.6	62.5	94.4	116.6	156.8	180.4	208.2
Rated Speed (r/min)	1800	1800	1800	1800	1800	1800	1800	1800	1800
Engine Brand	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
Engine Model	4B3.9-G11	4B3.9-G2	4B3.9-G12	4BT3.9-G2	4BTA3.9-G2	4BTA3.9-G11	6BT5.9-G2	6BTA5.9-G2	6BTA5.9-G2
Cylinder No. & Configuration	4 cylinder Diesel L type					6 cylinder Diesel L type			
Working Mode	Naturally Aspirated			Turbocharged	Turbocharged and Aftercooled (Jacket water to cooler)		Turbocharged	Turbocharged and Aftercooled (Jacket water to cooler)	Turbocharged and air-cooled charge air
Bore x Stroke (mm)	102*120	102*120	102*120	102*120	102*120	102*120	102*120	102*120	102*120
Displacement (L)	3.9	3.9	3.9	3.9	3.9	3.9	5.9	5.9	5.9
Compression Ratio	18.0: 1	18.0: 1	18.0: 1	18.0: 1	17.3:1	17.3:1	17.3:1	17.3:1	17.3:1
Rated Power (kW)	23	30	33	40	60	80	100	120	132
Rated Speed	1800	1800	1800	1800	1800	1800	1800	1800	1800
Lubrication System	Splash Lubrication								
Lube Oil	Conforms above CF class or SAE10W-30,15w-40								
Lube Oil Capacity (L)	10.9	10.9	10.9	10.9	10.9	10.9	16.4	16.4	16.4
Battery Capacity	6-QW-45(380)*2	6-QW-45(380)*2	6-QW-45(380)*2	6-QW-45(380)*2	6-QW-45(380)*2	6-QW-45(380)*2	6-QW-60(580)*2	6-QW-60(580)*2	6-QW-60(580)*2
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)								
Fuel Consumption 25% load (L/H)	3.1	3.6	4	4.2	5.5	6.4	9	10	10
Fuel Consumption 50% load (L/H)	4.8	5	5.5	6.2	8.7	10.8	14.4	16	17
Fuel Consumption 75% load (L/H)	5.6	6.8	7.5	8.4	12.2	15.3	20.7	23	25
Fuel Consumption 100% load (L/H)	7.1	8.6	9.4	10.7	15.9	20.1	28.5	31	34
Phase	3	3	3	3	3	3	3	3	3
Poles	4	4	4	4	4	4	4	4	4
Loop Mode	Three phase four wire								
Excitation System	Brushless self-excited constant voltage (AVR)								
Power Factor (cosΦ)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)
Winding Pitch	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
Winding Connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection
Terminals	12	12	12	12	12	12	12	12	12
Bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing
IP Rating	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Insulation Rating	H	H	H	H	H	H	H	H	H
Output Voltage (V)	220/240/416/440/480								
Noise Level (7m)dB(A)	80	80	80	80	80	80	80	80	80
Continuous Running Time (h)	8	8	8	8	8	8	8	8	8
Silent Type: Overall Dimension (mm)(LxWxH)	2452X960X1450	2452X960X1450	2452X960X1450	2452X960X1450	2452X960X1450	2452X960X1450	2960x1100x1650	3360x1110x1700	3360x1110x1700
Silent Type: Net Weight (kg)	1100	1120	1120	1155	1260	1280	1630	1970	1930
Silent Type: Fuel Tank Capacity (L)	213	213	213	213	213	213	420	393	393
Open Type: Overall Dimension (mm)(LxWxH)	1900x940x1450	1900x940x1450	1900x940x1450	1900x940x1450	1900x940x1450	1900x940x1450	2250x990x1450	2250x990x1450	2350x990x1450
Open Type: Net Weight (kg)	745	775	775	845	960	970	1120	1310	1355
Open Type: Fuel Tank Capacity (L)	130	130	130	130	130	130	200	200	210

# Cummins 60 Hz

## 60Hz | Three Phase

Model	LSC185S3-6	LSC220S3-6	LSC250S3-6	LSC300S3-6	LSC315S3-6	LSC330S3-6	LSC350S3-6	LSC350S3-6-1	LSC385S3-6
Prime Power (kVA)	167.5	200	230	273	283	300	315	312	350
Standby Power (kVA)	185	220	250	300	315	330	350	350	385
Prime Power (kW)	134	160	184	218	226	240	252	250	280
Standby Power (kW)	147.2	176	200	240	252	264	280	280	308
Rated Frequency (Hz)	60	60	60	60	60	60	60	60	60
Rated Voltage (V)	220/240/416/440/480								
Rated Current (A)	233.2	277.6	319.2	378.9	392.8	416.4	437.2	433.0	485.8
Rated Speed (r/min)	1800	1800	1800	1800	1800	1800	1800	1800	1800
Engine Brand	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
Engine Model	6BTAAs.9-G12	6CTA8.3-G2	6CTAA8.3-G2	6LTAA8.9-G2	6LTAA8.9-G3	6LTAA9.5-G3	6LTAA9.5-G1	NTA855-G1	NTA855-G1B
Cylinder No. & Configuration	6 cylinder Diesel L type								
Working Mode	Turbocharged and air-cooled charge air	Turbocharged and Aftercooled (Jacket water to cooler)	Turbocharged and air-cooled charge air						
Bore x Stroke (mm)	102*120	114*135	114*135	114*145	114*145	116.5*148	116.5*148	140*152	140*152
Displacement (L)	5.9	8.3	8.3	8.9	8.9	9.5	9.5	14	14
Compression Ratio	17.3:1	17.3:1	18.0:1	16.6:1	16.6:1	16.6:1	16.6:1	14.5:1	14:1
Rated Power (kW)	150	170	190	235	255	265	280	287	313
Rated Speed	1800	1800	1800	1800	1800	1800	1800	1800	1800
Lubrication System	Splash Lubrication								
Lube Oil	Conforms above CF class or SAE10W-30,15W-40								
Lube Oil Capacity (L)	16.4	27.6	23.8	27.6	27.6	32.4	32.4	38.6	36
Battery Capacity	6-QW-60(580)*2	6-QW-80(600)*2	6-QW-80(600)*2	6-QW-80(600)*2	6-QW-80(600)*2	6-QW-80(600)*2	6-QW-80(600)*2	6-QW-100(680)*2	6-QW-100(680)*2
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)								
Fuel Consumption 25% load (L/H)	11	14	15	17	18	18	19	20.6	22
Fuel Consumption 50% load (L/H)	19	23	25	30	31	33	34	38.4	39.5
Fuel Consumption 75% load (L/H)	28	33	37	44	46	47	50	56.1	60.4
Fuel Consumption 100% load (L/H)	38	44	49	59	62	65	68	73.4	80.2
Phase	3	3	3	3	3	3	3	3	3
Poles	4	4	4	4	4	4	4	4	4
Loop Mode	Three phase four wire								
Excitation System	Brushless self-excited constant voltage (AVR)								
Power Factor (cosΦ)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)
Winding Pitch	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
Winding Connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection
Terminals	12	12	12	12	12	12	12	12	12
Bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing
IP Rating	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Insulation Rating	H	H	H	H	H	H	H	H	H
Output Voltage (V)	220/240/416/440/480								
Noise Level (7m)dB(A)	80	80	80	80	80	80	80	80	80
Continuous Running Time (h)	8	8	8	8	8	8	8	8	8
Silent Type: Overall Dimension (mm)(LxWxH)	3360x1110x1700	3360x1110x1700	3620x1232x2000	3620x1232x2000	3620x1232x2000	3910x1332x2100	3910x1332x2100	4260x1462x2100	4260x1462x2100
Silent Type: Net Weight (kg)	2105	2430	2625	2830	2830	2845	2975	3835	3990
Silent Type: Fuel Tank Capacity (L)	393	393	575	575	575	758	758	765	765
Open Type: Overall Dimension (mm)(LxWxH)	2415x990x1560	2490x1114x1560	2490x1114x1560	2680x1150x1700	2680x1150x1700	3200x1150x1800	3200x1150x1800	3370x1250x1950	3370x1250x1950
Open Type: Net Weight (kg)	1415	1580	1685	1910	1910	2105	2235	2835	2900
Open Type: Fuel Tank Capacity (L)	220	255	255	325	325	400	400	470	470

# Cummins 60 Hz

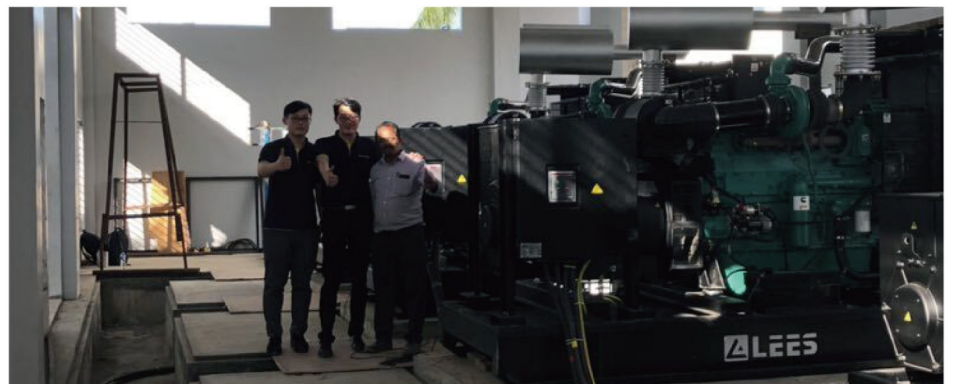
## 60Hz | Three Phase

Model	LSC440S3-6	LSC500S3-6	LSC575S3-6	LSC635S3-6	LSC688S3-6	LSC750S3-6	LSC1000S3-6	LSC1130S3-6	LSC1265S3-6
Prime Power (kVA)	400	475	523	580	625	-	910	1030	1125
Standby Power (kVA)	440	500	575	635	688	750	1000	1130	1265
Prime Power (kW)	320	380	418	464	500	-	728	824	900
Standby Power (kW)	352	400	460	508	550	600	800	904	1012
Rated Frequency (Hz)	60	60	60	60	60	60	60	60	60
Rated Voltage (V)	220/240/416/440/480								
Rated Current (A)	555.2	659.3	725.9	805.0	867.4	-	1263.0	1429.5	1561.4
Rated Speed (r/min)	1800	1800	1800	1800	1800	1800	1800	1800	1800
Engine Brand	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS	CUMMINS
Engine Model	NTA855-G3	QSZ13-G3	KTA19-G3	KTA19-G3A	QSK19-G4	KTAA19-G6A	KTA38-G2	KTA38-G2A	KTA38-G4
Cylinder No.& Configuration	6 cylinder Diesel L type					12 cylinder Diesel.VEE type			
Working Mode	Turbocharged and air-cooled charge air		Turbocharged and Aftercooled (Jacket water to cooler)			Turbocharged and air-cooled charge air	Turbocharged and Aftercooled (Jacket water to cooler)		
Bore x Stroke (mm)	140*152	130*163	159*159	159*159	159*159	159*159	159*159	159*159	159*159
Displacement (L)	14	13	18.9	19	18.9	19	37.8	37.8	38
Compression Ratio	14:1	17.0:1	13.9:1	13.9:1	15.0:1	13.9:1	14.5:1	14.5:1	13.9:1
Rated Power (kW)	358	450	463	507	559	664	809	915	1007
Rated Speed	1800	1800	1800	1800	1800	1800	1800	1800	1800
Lubrication System	Splash Lubrication								
Lube Oil	Conforms above CF class or SAE10W-30,15w-40								
Lube Oil Capacity (L)	36	45.42	50	50	84.4	50	135	135	135.1
Battery Capacity	6-QW-100(680)*2	6-QW-100(680)*2	6-QW-120(850)*2	6-QW-120(850)*2	6-QW-120(850)*2	6-QW-120(850)*2	6-QW-120(850)*4	6-QW-120(850)*4	6-QW-120(850)*4
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)								
Fuel Consumption 25% load (L/H)	26.8	28	37	67	44	41.2	67	55	81
Fuel Consumption 50% load (L/H)	46.9	50.8	61	122	76	73.3	111	111	136
Fuel Consumption 75% load (L/H)	66	75.7	86	172	106	106.5	157	164	190
Fuel Consumption 100% load (L/H)	87.1	104.1	111	225	140	140	204	225	245
Phase	3	3	3	3	3	3	3	3	3
Poles	4	4	4	4	4	4	4	4	4
Loop Mode	Three phase four wire								
Excitation System	Brushless self-excited constant voltage (AVR)								
Power Factor (cosΦ)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)	0.8 (lag)
Winding Pitch	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3	2/3
Winding Connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection	Y connection
Terminals	12	12	12	12	12	12	12	12	12
Bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing	single bearing
IP Rating	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Insulation Rating	H	H	H	H	H	H	H	H	H
Output Voltage (V)	220/240/416/440/480								
Noise Level (7m)dB(A)	80	80	80	80	80	80	80	80	80
Continuous Running Time (h)	8	8	8	8	8	8	8	8	8
Silent Type: Overall Dimension (mm)(LxWxH)	4260x1462x2100	4700x1630x2400	4700x1630x2400	4700x1630x2400	5060x1912x2500	5060x1912x2530	5400x2260x2550	5400x2260x2550	5400x2260x2550
Silent Type: Net Weight (kg)	4200	4805	5345	5450	6680	6525	9646	9646	9646
Silent Type: Fuel Tank Capacity (L)	765	1331	1331	1331	1000L	1000	1000(optional)	1000(optional)	1000(optional)
Open Type: Overall Dimension (mm)(LxWxH)	3370x1250x1950	3160x1380x2250	3600x1400x2150	3600x1400x2150	3950x1638x2150	3950x1638x2150	4550x2100x2320	4750x2100x2320	4750x2100x2320
Open Type: Net Weight (kg)	3110	3265	3800	3910	4640	4485	7000	7000	7000
Open Type: Fuel Tank Capacity (L)	470	490	590	590	800	800	1000(optional)	1000(optional)	1000(optional)

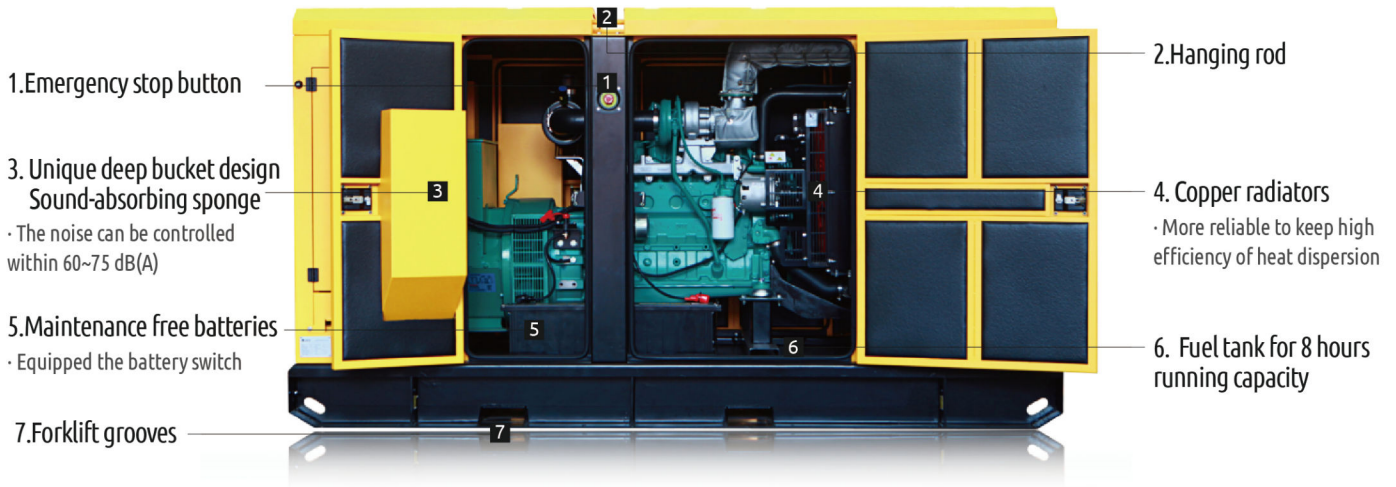




**LEES**  
**PROJECTS**  
Powered by Cummins



# Product Features



## ⚡ Features of Cummins engine

### • Accessory drive

Single Poly Vee belt drive for fan, alternator and water pump, with self-tensioning idle for minimum maintenance.

### • Complete rebuild ability

Cylinder block has multiple rebore capability.

Service cylinder sleeves and valve guides are also available.

### • Low fuel consumption

Excellent fuel consumption with B.S.F.C 215g/kw.h.

### • Cold start capability

Minimum ambient temperature for unaided cold start -12°C.

Minimum ambient temperature for aided (with coolant heater) cold start -35°C.

## ⚡ Features of alternator

- 12 wire reconnectable stator/terminal arrangement.
- Easy access for installation and maintenance.
- 2/3 pitch winding as standard, to avoid excessive neutral currents.
- Class H insulation with severe environmental protection as standard.
- Built to conform with all leading industrial and marine standards.
- 460 AVR as standard with 1.5% regulation and 2 phase sensing.
- IP23 as standard.

## ⚡ Features of DSE controller

- The DSE7320 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.
- Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS test alerts (with external modem).
- The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet terminals for system expansion.

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**LEES**<sup>®</sup>  
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