



LEES PERKINS SERIES GENERATORS

Comprehensive Power Solutions



60 Hz

About

LEES Perkins series gensets have a wide power range from 8~2500KVA, which have open type, silent type, trailer type and container type.

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

WHY DO YOU CHOOSE LEES PERKINS SERIES GENERATOR?

- **Performance:** Best engines ensure the best performance and the strongest power, which make sure gensets work smoothly.
- **Customer service:** Reliable Perkins global after sale service, which make sure customers have a worry free experience.
- **Optimization:** LEES make some improvements for the Perkins 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 Perkins 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



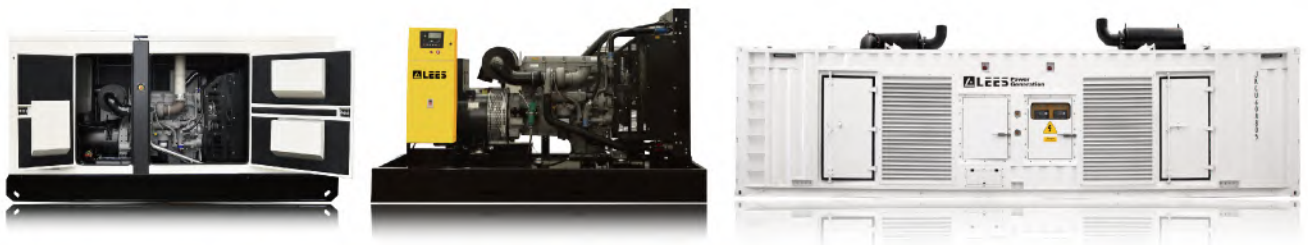
Energy



Data center

60Hz | Three Phase

Model	LSP13S3-6	LSP20S3-6	LSP26S3-6	LSP35S3-6	LSP40S3-6	LSP59S3-6	LSP75S3-6	LSP85S3-6	LSP105S3-6	LSP125S3-6	LSP190S3-6
Prime Power (kVA)	12	18	24	32	35	53	68	78	93	112	190
Standby Power (kVA)	13	20	26	35	40	59	75	85	105	125	169
Prime Power (kW)	9	14	19	26	28	42	55	62	74	90	150.4
Standby Power (kW)	10	16	21	28	31	47	60	68	82	100	135.2
Rated Frequency (Hz)	60	60	60	60	60	60	60	60	60	60	60
Rated Voltage (V)	220/240/416/440/480										
Rated Current (A)	16.0	25.0	33.3	44.4	48.6	73.6	94.4	107.6	129.1	155.4	234.6
Rated Speed (r/min)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Engine Brand	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
Engine Model	403D-11G	403A-15G2	404D-22G	404D-22TG	1103A-33G	1103A-33TG1	1103A-33TG2	1104A-44TG1	1104A-44TG2	1104C-44TAG2	1106A-70TAG2
Cylinder No.& Configuration	3 cylinder Diesel L type		4 cylinder Diesel L type		3 cylinder Diesel L type			4 cylinder Diesel L type		6 cylinder Diesel L type	
Working Mode	Naturally Aspirated			Turbocharged	Naturally Aspirated	Turbocharged			Turbocharged and air-cooled charge air	Turbocharged and Aftercooled (Jacket water to cooler)	
Bore x Stroke (mm)	77*81	84*90	84*100	84*100	105*127	105*127	105*127	105*127	105*127	105*127	105*135
Displacement (L)	1.131	1.496	2.216	2.216	3.3	3.3	3.3	4.4	4.4	4.4	7.01
Compression Ratio	23:1	22.5:1	23.3:1	23.3:1	19.25:1	17.25:1	17.25:1	17.25:1	17.25:1	18.23:1	18.2:1
Rated Power (kW)	10.7	16.33	22	30.3	33.2	50.5	63.3	70.7	84.5	106.8	155.4
Rated Speed	1800	1800	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)	4.9	6	10.6	10.6	8.3	8.3	8.3	8	8	8	18
Battery Capacity	6-QW-36(312)*1	6-QW-36(312)*1	6-QW-36(312)*1	6-QW-36(312)*1	6-QW-60(580)*1	6-QW-60(580)*1	6-QW-60(580)*1	6-QW-60(580)*1	6-QW-60(580)*1	6-QW-60(580)*1	6-QW-80(600)*1
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)										
Fuel Consumption 25% load (L/H)	0.9	1.55	2.1	2.9	2.9	4.3	4.8	5.8	6.5	7.05	11
Fuel Consumption 50% load (L/H)	1.5	2.25	3.5	4.9	4.9	7.1	8.7	9.7	11.9	14.1	19.1
Fuel Consumption 75% load (L/H)	2.1	3.1	4.8	6.1	6.6	9.9	12.4	13.5	16.9	20.2	29.1
Fuel Consumption 100% load (L/H)	2.7	4.32	6.2	8.3	8.6	12.9	16.8	17.8	22.3	26.9	38.2
Phase	3	3	3	3	3	3	3	3	3	3	3
Poles	4	4	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)	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	2/3	2/3
Winding Connection	Y connection	Y 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	12	12
Bearing	single bearing	single 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	IP23	IP23
Insulation Rating	H	H	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	80	80
Continuous Running Time (h)	8	8	8	8	8	8	8	8	8	8	8
Silent Type: Overall Dimension (mm)(LxWxH)	1860x810x1152	1860x810x1152	1860x810x1152	1860x810x1152	2152x960x1450	2152x960x1450	2510x1060x1600	2510x1060x1600	2510x1060x1600	2960x1100x1650	3360x1110x1750
Silent Type: Net Weight (kg)	565	610	680	710	966	1186	1425	1425	1425	1490	2155
Silent Type: Fuel Tank Capacity (L)	62	62	62	62	180	190	336	336	336	420	393
Open Type: Overall Dimension (mm)(LxWxH)	1300x690x1000	1400x690x1000	1470x690x1280	1560x690x1280	1600x790x1320	1600x790x1320	2000x850x1350	2000x850x1350	2000x850x1350	2250x960x1350	2650x960x1650
Open Type: Net Weight (kg)	440	350	445	475	785	895	1070	1070	1070	1120	1305
Open Type: Fuel Tank Capacity (L)	50	65	75	75	90	90	135	135	135	200	240



Model	LSP220S3-6	LSP250S3-6	LSP270S3-6	LSP320S3-6	LSP375S3-6	LSP440S3-6	LSP500S3-6	LSP565S3-6	LSP625S3-6	LSP700S3-6	LSP750S3-6
Prime Power (kVA)	200	225	245	288	338	400	438	513	569	-	-
Standby Power (kVA)	220	250	270	320	375	440	500	565	626	700	750
Prime Power (kW)	160	180	196	230.4	270	320	350	410	455	-	-
Standby Power (kW)	176	200	215	256	300	352	400	452	501	560	600
Rated Frequency (Hz)	60	60	60	60	60	60	60	60	60	60	60
Rated Voltage (V)	220/240/416/440/480										
Rated Current (A)	277.6	312.3	340.0	399.7	469.1	555.2	607.9	712.0	789.7	971.5	1040.9
Rated Speed (r/min)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Engine Brand	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS	PERKINS
Engine Model	1106A-70TAG3	1206A-E70TTAG1	1506A-E88TAG2	1506A-E88TAG3	1506A-E88TAG5	2206C-E13TAG2	2206A-E13TAG6	2506C-E15TAG1	2506C-E15TAG3	2806C-E18TAG1A	2806C-E18TAG3
Cylinder No.& Configuration	6 cylinder Diesel L type										
Working Mode	Turbocharged and Aftercooled (Jacket water to cooler)			Turbocharged and air-cooled charge air							
Bore x Stroke (mm)	105*135	105*135	112*149	112*149	112*149	130*157	130*157	137*171	137*171	145*183	145*183
Displacement (L)	7.01	7.01	8.8	8.8	8.8	12.5	12.5	15	15.2	18.13	18.13
Compression Ratio	16:1	15.8:1	16.1:1	16.1:1	16.1:1	16.3:1	16.3:1	16:1	16:1	14.5:1	14.5:1
Rated Power (kW)	180.5	216.6	233	270	325	373.4	406.5	458	519	567.7	617.5
Rated Speed	1800	1800	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)	18	16	41	41	41	40	40	62	60	62	62
Battery Capacity	6-QW-80(600)*1	6-QW-120(850)*1	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	6-QW-100(680)*2	6-QW-100(680)*2	6-QW-120(850)*2	6-QW-120(850)*2
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)										
Fuel Consumption 25% load (L/H)	12.4	16.5	17.4	19.8	23.3	28	29	34	46	43	48
Fuel Consumption 50% load (L/H)	22.7	27.8	29.3	33.1	38.9	46	48	57	77	71	79
Fuel Consumption 75% load (L/H)	35.3	40.4	41.8	47.5	56.8	65	69	77	96	100	112
Fuel Consumption 100% load (L/H)	46.4	54.5	54.2	63.1	77.1	84	91	100	121	130	145
Phase	3	3	3	3	3	3	3	3	3	3	3
Poles	4	4	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)	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	2/3	2/3
Winding Connection	Y connection	Y 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	12	12
Bearing	single bearing	single 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	IP23	IP23
Insulation Rating	H	H	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	80	80
Continuous Running Time (h)	8	8	8	8	8	8	8	8	8	8	8
Silent Type: Overall Dimension (mm)(LxWxH)	3360x1110x1750	3620x1232x2000	3910x1332x2050	3910x1332x2050	3910x1332x2050	4260x1462x2100	4260x1462x2100	4700x1630x2430	4700x1630x2430	5060x1912x2500	5060x1912x2500
Silent Type: Net Weight (kg)	2190	2830	2710	2830	3120	3950	3950	5120	5120	5895	5895
Silent Type: Fuel Tank Capacity (L)	393	575	758	758	758	800	800	1331	1331	1000	1000
Open Type: Overall Dimension (mm)(LxWxH)	2650x960x1650	2780x1200x1770	2900x1230x1670	2900x1230x1670	2900x1230x1670	3490x1330x2050	3490x1330x2050	3750x1350x2100	3750x1350x2100	3600x1750x2200	3600x1750x2200
Open Type: Net Weight (kg)	1450	2400	1930	2050	2245	3160	3160	4870	4870	4245	4245
Open Type: Fuel Tank Capacity (L)	240	340	380	380	380	540	540	590	590	760	760



LEES
PROJECTS
Powered by Perkins



Product Features



⚡ Features of Perkins 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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Comprehensive Power Solutions