

### **About**

LEES Doosan generators have a wide power range from 310~935kVA.

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

#### WHY DO YOU CHOOSE LEES DOOSAN SERIES GENERATOR?

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



## Doosan 50 Hz

## 50Hz | Three Phase

<b>N</b> odel	LSDS310S3	LSDS33553	LSDS410S3	LSDS490S3	LSDS510S3		
rime Power (kVA)	272	300	373	445	463		
tandby Power (kVA)	310	335	410	490	510		
rime Power (kW)	217.6	240	298	356	370		
tandby Power (kW)	248	268	328	392	408		
ated Frequency (Hz)	50	50	50	50	50		
ated Voltage (V)	400	400	400	400	400		
tated Current (A)	393	433	538	642	668		
ated Speed (r/min)	1500	1500	1500	1500	1500		
Engine Brand	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN		
Engine Model	P126TI	P126TI-II	DP126LB	P158LE	DP158LC		
	F12011		DF 120LB				
Cylinder No.& Configuration	6 cylinder Diesel L type 8 cylinder Diesel.VEE type						
Working Mode	422*455	400*455	Turbocharged and air-cooled charge air	420*4.42	420*442		
Bore x Stroke (mm)	123*155	123*155	123*155	128*142	128*142		
Displacement (L)	11.051	11.051	11.051	14.618	14.618		
Compression Ratio	17.1: 1	17.1: 1	17.2: 1	15:01	15:01		
Rated Power (kW)	241	265	327	363	408		
Rated Speed	1500	1500	1500	1500	1500		
Lubrication System	Splash Lubrication						
Lube Oil			CH15W-40				
Lube Oil Capacity (L)	23	23	44	21	22		
Battery Capacity	6-QW-120(850)*2	6-QW-120(850)*2	6-QW-120(850)*2	6-QW-120(850)*2	6-QW-120(850)*2		
Fuel Type	0#	0#	0#	0#	0#		
Fuel Consumption 25% load (L/H)	16.4	16.9	20.2	23.7	27.6		
Fuel Consumption 50% load (L/H)	30	31.3	38.4	43.9	48.9		
Fuel Consumption 75% load (L/H)	43.3	47	57.1	65.1	72.9		
Fuel Consumption 100% load (L/H)	58.1	63	76	89.3	99.6		
Phase	3	3	3	3	3		
Poles	4	4	4	4	4		
Loop Mode	Three phase four wire						
Excitation System	Brushless self-excited constant voltage (AVR)						
Power Factor (cosΦ)	0.8	0.8	0.8	0.8	0.8		
Winding Pitch	2/3	2/3	2/3	2/3	2/3		
Winding Connection	Y connection	Y connection	Y connection	Y connection	Y connection		
Terminals	12	12	12	12	12		
Bearing	single bearing	single bearing	single bearing	single bearing	single bearing		
IP Rating	IP23	IP23	IP23	IP23	IP23		
Insulation Rating	н	н	н	н	н		
Output Voltage (V)	400	400	400	400	400		
Noise Level (7m)dB(A)	75	75	76	79	81		
Continuous Running Time (h)	8	8	8	8	8		
Silent Type: Overall	4260x1462x2100	4260x1462x2100	4260x1612x2300	4260x1612x2300	4260x1612x2300		
Dimension (mm)(LxWxH) Silent Type: Net Weight (kg)	3565	3575	3870	3940	4250		
Silent Type: Fuel Tank	765	765	765	765	765		
Capacity (L) Open Type: Overall	3250x1300x1700	3250x1300x1700	3250x1600x2000	3350x1600x2000	3350x1600x2000		
Dimension (mm)(LxWxH)  Open Type: Net Weight (kg)	2400	2485	2850	2920	3230		

## Doosan 50 Hz

## 50Hz | Three Phase

/lodel	LSDS583S3	LSDS632S3	LSDS705S3	LSDS760S3	LSDS828S3		
ime Power (kVA)	529	573	640	689	751		
andby Power (kVA)	583	632	705	760	828		
ime Power (kW)	423	458	512	551	601		
andby Power (kW)	466	506	564	608	662		
ited Frequency (Hz)	50	50	50	50	50		
ited Voltage (V)	400	400	400	400	400		
ited Current (A)	764	827	924	995	1084		
ited Speed (r/min)	1500	1500	1500	1500	1500		
Engine Brand	DOOSAN	DOOSAN	DOOSAN	DOOSAN	DOOSAN		
Engine Model	DP158LD	DP180LA	DP180LB	DP222LB	DP222LC		
Cylinder No.& Configuration	8 cylinder Diesel.VEE type	10 cylinder D	iesel.VEE type	12 cylinder D	Piesel.VEE type		
Working Mode	Turbocharged and air-cooled charge air						
Bore x Stroke (mm)	128*142	128*142	128*142	128*142	128*142		
Displacement (L)	14.618	18.273	18.273	21.927	21.927		
Compression Ratio	15:01	15:01	15:01	15:01	15:01		
Rated Power (kW)	464	502	556	604	657		
Rated Speed	1500	1500	1500	1500	1500		
Lubrication System	Splash Lubrication						
Lube Oil	Spiasn Lubrication  CH15W-40						
	22	24		40	40		
Lube Oil Capacity (L)	22	34	34	40	40		
Battery Capacity	6-QW-120(850)*2	6-QW-120(850)*2	6-QW-120(850)*2	6-QW-120(850)*2	6-QW-120(850)*2		
Fuel Consumption 25% lead	0#	0#	0#	0#	0#		
Fuel Consumption 25% load (L/H)	30.3	35.4	38.6	39.2	42.1		
Fuel Consumption 50% load L/H)	55.1	64.8	71.2	73	79.3		
Fuel Consumption 75% load [L/H)	83.4	94.2	103.8	109.2	119.1		
Fuel Consumption 100% load [L/H)	115.1	123.6	136.4	147.1	161		
Phase	3	3	3	3	3		
Poles	4	4	4	4	4		
Loop Mode	Three phase four wire						
Excitation System							
Power Factor (cosΦ)	Brushless self-excited constant voltage (AVR)  0.8 0.8 0.8 0.8 0.8 0.8						
Winding Pitch	2/3	2/3	2/3	2/3	2/3		
Winding Connection	Y connection	Y connection	Y connection	Y connection	Y connection		
Terminals	12	12	12	12	12		
Bearing	single bearing	single bearing	single bearing	single bearing	single bearing		
P Rating	IP23	IP23	IP23	IP23	IP23		
nsulation Rating	Н	н	н	н	Н		
Output Voltage (V)	400	400	400	400	400		
Noise Level (7m)dB(A)	80	81	82	82	83		
Continuous Running Time (h)	8	8	8	8	8		
Silent Type: Overall Dimension (mm)(LxWxH)	4260x1612x2300	4700x1630x2430	4700x1630x2430	5060x1912x2500	5060x1912x2530		
Silent Type: Net Weight (kg)	4390	5060	5215	5920	5920		
Silent Type: Fuel Tank	765	1331	1331	1000	1000		
Capacity (L) Open Type: Overall	3350x1600x2000	3500x1600x2050	3500x1600x2050	3960x1600x2250	3960x1600x2250		
Dimension (mm)(LxWxH)							
Open Type: Net Weight (kg) Open Type: Fuel Tank	3370	3500	3655	4250	4250		
Capacity (L)	720	760	760	890	890		





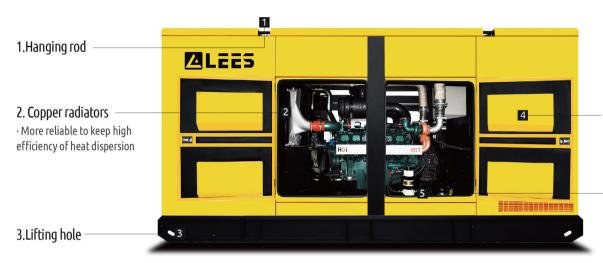
# LEES PROJECTS

**Powered by Doosan** 





# Product Features



- 4. Unique deep bucket design Sound-absorbing sponge
- The noise can be controlled within 60~75 dB(A)
- 5. Fuel tank for 8 hours running capacity

## Features of Doosan 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  $^{\circ}\! C$  .

Minimum ambient temperature for aided (with coolant heater) cold start -35  $^{\circ}$ 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.

### www.leespower.com

Tel: 0086-510-85168446 Email: lees@leespower.com Facebook: @leesgenerator

Add: 312 National Highway, Luoshe, Huishan District, Wuxi, China, 214000

