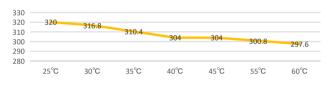




MODEL			LSP320S3-6		
Power Pf.0.8	Standby	kVA	320		
	Standby	kW	256		
	Prime	kVA	288		
		kW	230.4		
	Frequency	Hz	60		
	Voltage	V	208/120; 220/127; 416/240; 440/254; 480/277		
	Rated speed	rpm	1800		

Temperature (Celsius) Derate Curves
Unit: kVA



Altitude (meters) Derate Curves
Unit: kVA



LEES generator sets meet the standards of ISO9001, CE, BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

### **Standard reference Conditions:**

Standard reference condition  $25^{\circ}$ C ( $77^{\circ}$ F) air inlet temp, 100m (328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2.



#### **Standard Features**

- >LEES Power provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- ➤The 60Hz generator set offers a AUS 2012 listing and CE 2015 listing.
- >The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- >The generator set accepts rated load in one step.
- ➤The 60Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2、EU3 nonroad emissions regulations.(≤560KW)
- >A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.

### **Generator Features**

- >The brushless, rotating-field generator has broadrange reconnectability.
- >The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability
- >Controllers are available for all applications. See controller features inside.
- >The low coolant level shutdown prevents overheating (standard on radiator models only)
- ➤ Integral vibration isolation eliminates the need for under-unit vibration spring isolators
- ➤ An electronic, isochronous governor delivers precise frequency regulation.
- ➤ Electronic engine controls and a generator microprocessor controller combine to deliver one of the most advanced control systems in today's generator market.

RATINGS: All three-phase units are rated at 0.8 power factor. Standby ratings: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. Prime power ratings: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult LEES. Obtain the technical information bulletin (TIS-101) on ratings guidelines for the complete ratings definitions. LEES reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.



# Perkins engine Model: 1506A-E88TAG3

# **Serkins**

### Main features:

- · Lower operating costs
  - The 1500 Series in designed to provide low cost of ownership, simple maintenance and reduced downtime. Oil change intervals are set at 500 hours as standard. One of its most impressive benefits is a fuel saving of up to seven percent on previous models. This is significant in terms of reducing ownership and operating costs. In fact, five to seven years of fuel savings at this level will pay for the entire cost of the engine.
- · Performance you can rely on
  - ➤ 1500 Series has world-class power density that is achieved using a hydraulic actuated unit injection (HEUI) fuel system. This makes the engine robust enough for any territory as it can cope with the variation in fuel quality around the world. The engines are also designed to provide reliable power even in the most extreme climates and performed above and beyond expectations in ambient testing. It also has an improved capability of up to eight percent at altitude making it a durable and dependable performer.
- · Cost effective power
  - Compact size and low noise
  - > Lower fuel consumption and oil use
  - > 500 hours service intervals
  - 2 year warranty



## **Engine Specifications**

Engine Brand	PERKINS
Engine Model	1506A-E88TAG3
Cylinder No.& Configuration	6 cylinder Diesel L type
Working Mode	Turbocharged and air-cooled
	charge air
Bore x Stroke mm	112*149
Displacement L	8.8
Compression Ratio	16.1:1
Rated Power kW	270
Rated Speed	1800
Lubrication System	Splash Lubrication
Lube Oil ·····	Conforms above CF class or
	SAE10W-30,15w-40
Lube Oil Capacity L	41
Battery Capacity	6-QW-80(600)*2
Fuel Type	Diesel:0#(Summer),-
	10#(Winter),-35#(Cold)
Fuel Consumption 25% load L/H	19.8
Fuel Consumption 50% load L/H	33.1
Fuel Consumption 75% load L/H	47.5
Fuel Consumption 100% load L/H	63.1



### **Alternator**

Type Exciter type

Voltage regulator
Insulation
Material
Temperature rise
Bearing: quantity, type
Coupling
Amortisseur windings
Rotor balancing
Voltage regulation, no-load to
full-load(with < 0.5% drift due
to temp. variation
One-step load acceptance
Unbalanced load capability

4-Pole, Rotating-Field Brushless, Permanent-Magnet, Pilot Exciter Solid-State, Volts/Hz NEMA MG1, Class H Synthetic, Nonhygroscopic 130°C, 150°C Standby 1, Sealed Flexible Disc Full 125% 60 Hz, 150% 50 Hz

3-Phase Sensing,  $\pm 0.25\%$ 

100% of Rating 100% of Rated Standby

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- ➤ Digital solid-state.volts-per-hertz voltage regulator with ± 0.25% no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

### **Controller**





Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Safeguard circuit protection standard. 12- or 24-volt engine electrical system capability. Remote start, remote annunciation, and remote communication options. Refer to M6-46 for additional controller features and accessories

### **Key Features**

- > 4-line back-lit LCD text display
- > Five key menu navigation
- > Front panel editing with PIN protection
- ➤ LED and LCD alarm indication
- > Customisable status screens
- Power save mode
- > Support for up to three remote display units
- > 9 configurable inputs
- > 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- > 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Control logic facilities
- > Easy access diagnostic page
- > CAN and Magnetic Pick-up / Alt. Sensing
- > Fuel usage monitor and low fuel alarms
- Charger alternator failure alarm

- Manual speed control
- > Manual fuel pump control
- > Engine exerciser
- > "protections disabled" feature
- > kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- > Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- > Backed up real time clock
- Configurable display languages
- ➤ User selectable RS232 and RS485 communications
- > SMS Messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- Integral PLC editor



# **Generating Sets Standard and Optional Features**

### **Engine**

- 4-stroke, water-cooled diesel engine
- Standard air filter
- > Standard fuel filter
- > Standard oil filter
- Oil temperature sensor
- Low coolant level sensor
- > Radiator with blowing fan
- Industrial silence
- > Fuel water separator (optional)
- Water jacket heater (optional)

#### **Alternator**

- Class H insulation
- ➤ IP23 Protection
- Automatic Voltage Regulator (AVR)
- PMG excitation(optional)
- Single bearing alternator
- Class F or class B temperature rise (optional)
- Digital Voltage Regulator (optional)
- Double bearing (optional)
- Condensed heater (optional)
- > IP41 Protection (optional)

### **Electrical system**

- Maintenance-free and anti-explosion battery
- > Standard breaker
- ABB breaker (optional)
- > ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

### **Packing**

- Engine manual
- Alternator manual
- > Gensets operation and maintenance manual
- Tool kit

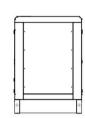
# **Baseframe**

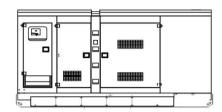
- Forklift pockets
- Pulling slots
- Earth wire protection
- > Built-in anti vibration mountings
- Fuel outlet value
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

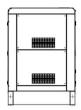
# Canopy

- Weatherproof & sound-attenated canopy
- > Sound-absorbing material
- Lifting lug
- Emergency stop button
- Inside silencer

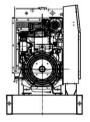
### **Overview Dimension & Weight**

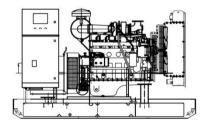


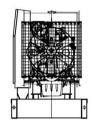




LSP320S3-6 (Silent type)							
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)		
Silent Type	3910	1332	2050	2830	758		







LSP320E3-6 (Open type)							
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)		
Open Type	2900	1230	1670	2050	380		

Contact your distributor / dealer for more information

### **WUXI LEES POWER COMPANY LIMITED**

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