

# EZ-POWER

## EQUIPMENT

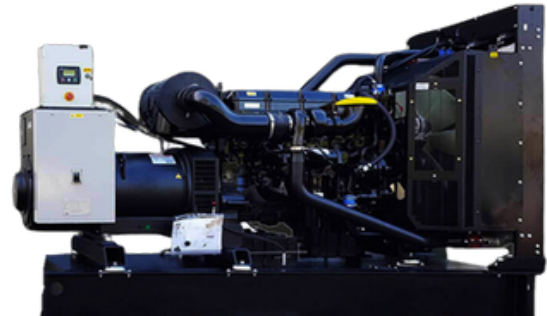
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# EZ-320

## GENERATING SET

(TECHNICAL DATA SHEET)



### Output Rating:

PRIME:		STANDBY:	
60 Hz—1800 Rpm 400 V, 3ph			
290kVA	232KW	320 KvA	256KW

#### 1- Prime Rating:

Unlimited hours usage, with an average load factor of 80% over each 24 hour period. 10% overload is available for 1 hour in every 12 hours operation. 0 overload is permitted on standby power.

#### 2- Standby Rating:

Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power.

#### 3- Engine:

Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

#### 4- Alternator Type:

brushless AC alternator

#### 5- Radiator:

50°C, fan protective shroud

### ENGINE SPECIFICATIONS

Engine Make	PERKINS
Engine Model	1506A-E88TAG3
No. of Cylinders	6 vertical in-line
Cycle	4 Stroke
Aspiration	Series turbocharged aftercooled
Cooling Method	Water cooled
Compression Ratio	15.8:1
Displacement	7.01 L   427.7 in3
Bore/Stroke Dynamic	105 x 135 mm   4.13 x 5.3 in

### ALTERNATOR SPECIFICATIONS

Alternator Make	EZ I Leroy Somer   Stamford
Alternator Model	EZ I TAL-A46 D   UCD274K 4
Number of Poles	6
Number of Winding Leads	Single Bearing
Type of Bearing	Cont. H - 125/40 C
Insulation Class - Temp Rise	IP 23
Ingress Protection Rating	Self Excited
Excitation System	
AVR Model	R150

### Comply with Standards

ISO3046,BS5514,DIN6271,NEMA-MGI, DIN EN, BS 5000, IEC 60034,IEC 60947-2

### Alternator Operating Data

Over speed	2250 rpm
Voltage Regulation	+ 1%
Harmonic Coefficient THF	< 2.5%
Tel. influence TIF	< 50
Cooling air flow	0.48 m3/ Sec

### Powered By:



Diesel Generator



LEROY-SOMER



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## Standard Specifications:

### 6- Fuel Tank:

Capacity of fuel tank is for 8-10hours running

Built-in fuel tank up to 800 kVA

### 7- Circuit Breaker:

3poleLSMCCB

### 8- Control system alarms:

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- Over and Under Speed
- Low and High Battery Volt.
- Start and Stop Failure
- Over Current
- Under / Over Generator Voltage
- Low Oil Pressure
- Emergency stop
- High engine temperature

### 9- Warranty policy:

- EZ POWER products has a warranty for 12 Months or 1000 hours whichever occurs first against any manufacturing defects
- Wearing parts (filters), incorrect man made operation, maintenance failures are excluded from the warranty policy

## Control System:

Large back-lit text display

Multiple displaylanguages

DSENET expansioncompatible

Data logging facility

Fully configurable via PC using USB communication

Front panel configuration

Efficient power save mode

3 phase generator sensing

Accumulated power monitoring (kWh, kVA h, kVAh)

Generator/load current monitoring and protection (kW)

Breaker control via fascia buttons

Fuel and start outputs, configurable using can

4 configurable DC outputs

4 configurable analogue/digital inputs

Automatically transfers between mains (utility) and generator

Increased input and output expansion capability via dsenet

IP65 rating (with optional gasket) offers increased resistance to water ingress

Digital inputs; Analogue Inputs



## DSE6110 MKII

AUTO START & AUTO MAINS  
FAILURE CONTROL

## Dimensions:

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank ( L )	Weight (KG)
OPEN	2800	1120	1660	525	2289
CLOSED	4411	1614	2277	1035	2900

Note: The following dimensions are for preliminary guidance. For more detailed and accurate dimensions, please refer to the General Arrangement Drawing (GAD).

## Acoustic Enclosure Specifications:

Enclosure Type	Acoustic & Weather Proof
Drainage Provision	Fuel and Water Drainage
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Ingress Protection Rating	IP 23
Lifting	ISO Standard Lifting
Canopy RAL Color	TAL 9010 RAL 9011
Base frame RAL Color	
Noise Pressure level @ 7m	77 dB(A)



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## Engine:



Perkins heavy duty high performance industrial type diesel engine.

### COOLING SYSTEM

Total Coolant Capacity (L)	25 L
Radiator Fan Load	8 kW
Heat Radiation to Room (PRP)	15 kW
Heat Radiation to Room (ESP)	15 kW

### LUBRICATION SYSTEM

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	16 litres
Oil Type	API CH4/C14; SAE 15W-40

### EXHAUST SYSTEM

Muffler Type	Industrial Grade
Max. Back Pressure	10 kPa
Exhaust Gas Flow (PRP/ESP)	34.4 /35.7 m <sup>3</sup> / min
Exhaust Gas Temperature	< 475 0C

### FUEL SYSTEM

Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	64.5 L/hr
Fuel Consumption 100% PRP	56.9 L/hr
Fuel Consumption 75% PRP	41.5 L/hr
Fuel Consumption 50% PRP	28.1 L/hr

### AIR SYSTEM

Air Filter Type	Dry Element
Combustion Air Flow (PRP)	143.5 m <sup>3</sup> /min
Combustion Air Flow (ESP)	14.1 m <sup>3</sup> /min
Max Air Filter Intake Restriction	6.2 kPa

## Optional configurations:

### Engine accessories:

Heavy-duty air filter  
Coolant heater  
Lubricant oil heater  
Fuel and Water Separator  
Lube oil rotary pump

### Alternator And Accessories:

Leroy somer/stamford  
Anti condensation heater  
PMG + AVR ◇ Double bearing  
Alternator High voltage \_\_\_\_\_kV  
RTDs for Bearing and winding

### Cooling System:

55 degree Radiator  
Remote Radiator

### Control System:

AMF  
Parallel  
Practical type in low temperature environment  
Control Screen Heater  
Remote Annunciators  
Other (Comp, DEIF)

### Circuit Breaker:

3/4 poles  
Fixed/handcart type  
Electric mechanism

### Automatic Transfer Switch (ATS):

ATScabinet  
Contractor type ATS  
Motorized changeover type ATS

### Start Battery:

Nickel-cadmium battery  
Maintenance-free battery  
Battery charger and selector switch  
Charging current meter

### External Fuel Tank:

Single/doublewall fuel tank (500-5000 L)  
Fuel Transfer pump

### Exhaust Muffler:

Residential grade  
Critical grade  
Hospital grade

### Available for voltages :

400/230V, 480/277V, 380/220V, 440/254V,  
416/240V, 220/127V, 208/120V

De-rating may apply.



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