

EZ-POWER
E Q U I P M E N T

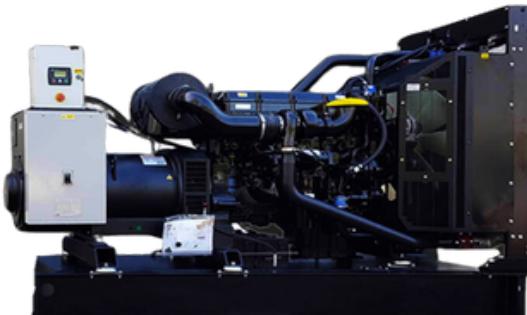
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EZ-320

GENERATING SET

(TECHNICAL DATA SHEET)



Output Rating:

PRIME:	STANDBY:
60 Hz—1800 Rpm 400 V, 3ph	
290kVA	320 KwA

232kW	256kW
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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 in ³
Bore/Stroke Dynamic	105 x 135 mm 4.13 x 5.3 in

ALTERNATOR SPECIFICATIONS

Alternator Make	EZ Leroy Somer Stamford
Alternator Model	EZ TAL-A46 D UCD274K4
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 m ³ / Sec

Powered By:

Perkins

Diesel Generator

STAMFORD
power generation

LEROY-SOMER

DSE

mecc alte



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Standard Specifications:

6- Fuel Tank:

Capacity of fuel tank is for 8-10hours running

Builtin 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

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)

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, kVAr h)

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).



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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/CI4; SAE 15W-40

EXHAUST SYSTEM

Muffler Type	Industrial Grade
Max. Back Pressure	10 kPa
Exhaust Gas Flow (PRP/ESP)	34.4 /35.7 m ³ / 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 ³ /min
Combustion Air Flow (ESP)	14.1 m ³ /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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