

# EZ-POWER

## EQUIPMENT

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# EZ-250

## GENERATING SET

(TECHNICAL DATA SHEET)

### 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:

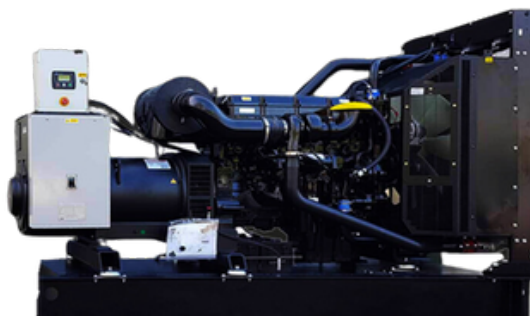
Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

### 4- Alternator Type:

brushless AC alternator

### 5- Radiator:

50°C, fan protective shroud



## Output Rating:

### PRIME:

### STANDBY:

60 Hz—1800 Rpm 480 V, 3ph

225 kVA

180 kW

250 kVA

200 kW

## ENGINE SPECIFICATIONS

Engine Make	PERKINS
Engine Model	1206A-E70TAG1
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   Leroy Somer   Stamford
Alternator Model	EZ I TAL A46 C   UCI274H
Number of Poles	4
Number of Winding Leads	6
Type of Bearing	Single Bearing
Insulation Class - Temp Rise	Cont. H - 125/40 C
Ingress Protection Rating	IP 23
Excitation System	Self Excited
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

meccalte



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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:

• • • • •

- 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, kVA r 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	3015	1000	1980	515	2000
CLOSED	4414	1600	2250	760	3290

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
Ingress Protection Rating	IP 23
Lifting	ISO Standard Lifting
Canopy RAL Color	TAL 9010 RAL 9011
Base frame RAL Color	
Noise Pressure level @ 7m	73db(A) @ 7mt



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## Engine:



Perkins heavy duty high performance industrial type diesel engine.

### COOLING SYSTEM

Total Coolant Capacity (L)	25 L
Cooling Fan Air Flow	370 m <sup>3</sup> / min
Radiator Fan Load	15 kW
Heat Radiation to Room (PRP)	128.8 kW
Heat Radiation to Room (ESP)	141.7 kW

### LUBRICATION SYSTEM

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	13-16 litres
Oil Type	API-CH-4 or ACEA E5

### 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	61.5 L/hr
Fuel Consumption 100% PRP	54.5 L/hr
Fuel Consumption 75% PRP	40.4 L/hr
Fuel Consumption 50% PRP	27.8 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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