

# EZ-POWER

## EQUIPMENT

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# EZ-1385

## GENERATING SET (TECHNICAL DATA SHEET)

### Standard Specifications:

#### 1 PrimeRating:

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 StandbyRating:

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:

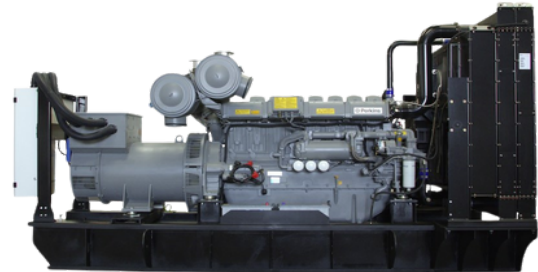
Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

#### 4 Alternator Type:

brushless AC alternator

#### 5 Radiator:

50°C, fan protective shroud



### Output Rating:

#### PRIME:

60 Hz—1800 Rpm 480 V, 3ph

1253 kVA

1002.4 kW

#### STANDBY:

1385 kVA

1108 kW

### ENGINE SPECIFICATIONS

Engine Make	PERKINS
Engine Model	4012-46TWG2A
No. of Cylinders	12 60° Vee form
Cycle	4 Stroke
Aspiration	Quad turbocharged, aftercooled
Cooling Method	Water cooled
Governing Type	Electronic
Governing Class	G2-ISO 8528-5
Compression Ratio	13.6:1
Displacement	45.842 Litres
Bore/ Stroke	160x190mm
Dynamic Charging Alternator	55 AMP, 24V

### ALTERNATOR SPECIFICATIONS

Alternator Make	LeroySomer   STAMFORD
Alternator Model	LSA50.2M   S6L1D-H41
Number of Poles	4
Number of Winding Leads	6
Type of Bearing	Single Bearing
Insulation Class- Temp Rise	Cont.H-125/40C
Ingress Protection Rating	IP 23
Excitation System	AREP
AVR Model	D350

### COMPLY WITH STANDARDS

ISO 3046, BS5514, DIN6271, NEMA-MGI, DINEN, BS5000, IEC60034, IEC60947-2

### ALTERNATOR OPERATING DATA

Over speed	2250rpm
Voltage Regulation	+1%
Harmonic Coefficient THF	<2%
Tel. influence TIF	<50
Cooling airflow	1.8m <sup>3</sup> / Sec

### Powered By:



Diesel Generator



LEROY-SOMER



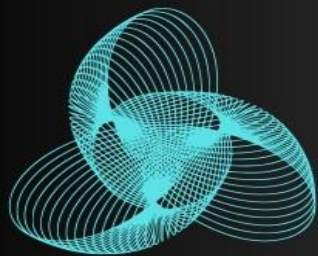
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### Standard Specifications:

#### 6- Fuel Tank:

Capacity of fuel tank is for 8 hours running  
Built in fuel tank upto 800kVA

#### 7- Circuit Breaker:

3 pole LS MCCB

#### 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 display languages

DSENET expansion compatible

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	5000	2455	2650	-	10777
CLOSED	30 Feet ISO HC Container			NA*	13942

**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
Base frame RAL Color	RAL 9011
Noise Pressure level @ 7m 87 dB(A) ± 3 dB(A)	



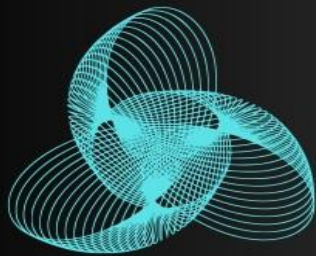
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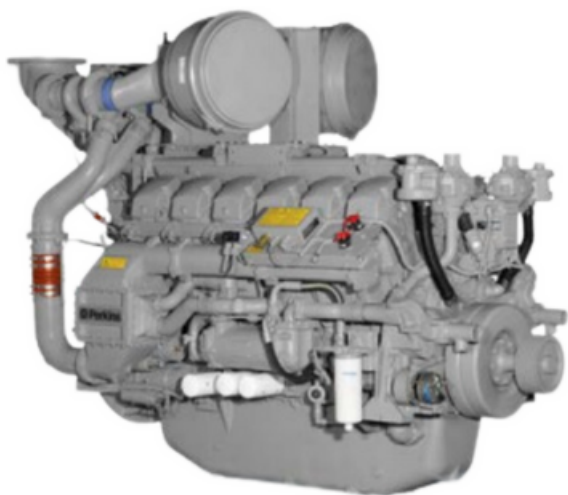
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### Engine:



#### COOLING SYSTEM

Total Coolant Capacity(L)	196L
Cooling Fan Air Flow	1095m <sup>3</sup> / min
Radiator Fan Load	27kW
Heat Radiation to Room (PRP)	80Kw
Heat Radiation to Room(ESP)	100 kW

#### LUBRICATION SYSTEM

Oil Filter Type	Spin-On Full Flow
Total Oil Capacity	153L
Oil type	API-CH-4 or ACEA E5

#### EXHAUST SYSTEM

Muffler Type	Industrial Grade
Max. BackPressure	8kPa
Exhaust Gas Flow (PRP/ESP)	200 m <sup>3</sup> / min
Exhaust Gas Temperature	≤ 465 °C

#### FUEL SYSTEM

Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	298L/hr
Fuel Consumption 100% PRP	266L/hr
Fuel Consumption 75% PRP	209 L/hr
Fuel Consumption 50% PRP	143 L/hr

#### AIR SYSTEM

Air Filter Type	Paper Element
Combustion Air Flow (PRP)	75 m <sup>3</sup> /min
Combustion Air Flow (ESP)	80.5 m <sup>3</sup> /min
Max Air Filter Intake Restriction	3.7 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):

- ☐ ATS cabinet
- ☐ 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 /double wall 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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