

# EZ-12.4

## GENERATING SET (TECHNICAL DATA SHEET)

### Standard Specifications:

#### 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:

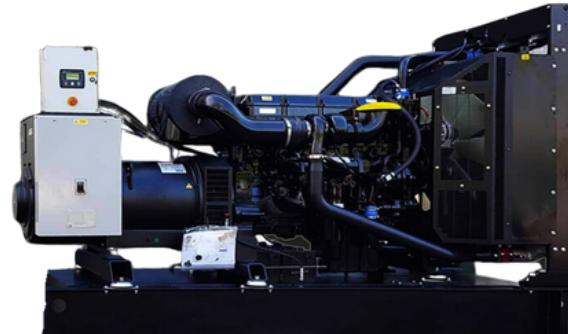
50°C, fan protective shroud

### Powered By:

**STAMFORD**  
power generation

**LEROY-SOMER**

**DSE**



### Output Rating:

#### PRIME:

60 Hz—1800 Rpm 480 V, 3ph  
11.2 kVA 9 kW

#### STANDBY:

12.4 kVA 10 kW

### ENGINE SPECIFICATIONS

Engine Make	PERKINS
Engine Model	403A-11G1
No. of Cylinders	3 vertical in-line
Cycle	4 Strokes
Aspiration	Naturally Aspirated
Cooling Method	Water cooled
Governing Type	Mechanical
Governing Class	G2 - ISO 8528 Part 1
Compression Ratio	23:1
Displacement	1.131 L
Bore/Stroke	77 x 81 mm
Dynamic Charging Alternator	15AMP, 12V

### ALTERNATOR SPECIFICATIONS

Alternator Make	EZ   Leroy Somer   STAMFORD
Alternator Model	EZ   TAL-A40 B   PI044E
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	R120

### Comply with Standards

ISO 3046, BS 5514, DIN 6271, NEMA-MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2

### Alternator Operating data

Over speed	2250 rpm
Voltage Regulation	± 1%
Harmonic Coefficient THF	< 3.5%
Tel. influence TIF	< 50
Cooling air flow	0.06 m3/ Sec



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## Standard Specifications:

### 6- Fuel Tank:

Capacity of fuel tank is for 8-10 hours running  
Built in fuel tank up to 800 kVA

### 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

## 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	67 dB(A)

## 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 dseonet
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Digital inputs; Analogue Inputs



### DSE4520 MKII

AUTO START & AUTO MAINS FAILURE CONTROL

## Dimensions:

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	1635	750	1260	92	495
CLOSED	2152	1004	1342	169	730

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) 5.2 L

Cooling Fan Air Flow 40.2 m<sup>3</sup>/ min

Radiator Fan Load 0.2 kW

Heat Radiation to Room (PRP) 1.7kW

Heat Radiation to Room (ESP) 2.5 kW

### LUBRICATION SYSTEM

Oil Filter Type Spin-On Full Flow

Total Oil Capacity 4.9L

Oil Type API-CH-4 or ACEA E5

### EXHAUST SYSTEM

Muffler Type Industrial Grade

Max. Back Pressure 10.2 kPa

Exhaust Gas Flow (PRP/ESP) 1.66/1.8 m<sup>3</sup>/ min

Exhaust Gas Temperature < 4200C

### FUEL SYSTEM

Recommended Fuel Class A2 Diesel

Fuel Consumption Standby 3.6 L/hr

Fuel Consumption 100% PRP 3.0 L/hr

Fuel Consumption 75% PRP 2.3 L/hr

Fuel Consumption 50% PRP 1.7 L/hr

### AIR SYSTEM

Air Filter Type Dry Element

Combustion Air Flow (PRP) 0.7 m<sup>3</sup>/min

Combustion Air Flow (ESP) 0.7 m<sup>3</sup>/min

Max Air Filter Intake Restriction 6.4kPa

## 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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