

EZ-POWER

EQUIPMENT

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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:

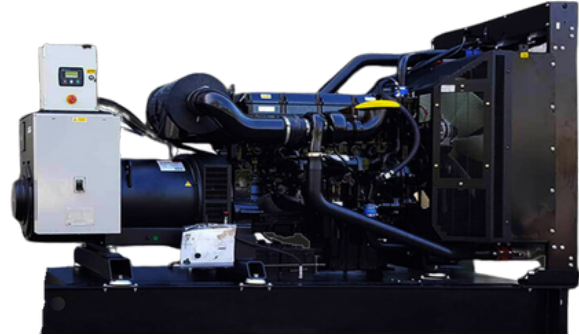
Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

4- Alternator Type:

brushless AC alternator

5- Radiator:

50°C, fan protective shroud



Output Rating:

PRIME:

STANDBY:

60 Hz—1800 Rpm 480 V, 3ph

11.2 kVA

9 kW

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 I Leroy Somer STAMFORD |
| Alternator Model | EZ I 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 |

Powered By:

Perkins

Diesel Generator

STAMFORD
power generation

LEROY-SOMER

meccalte

DSE



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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, 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



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 ³ / 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 ³ / 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 ³ /min |
| Combustion Air Flow (ESP) | 0.7 m ³ /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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