

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

ez-power.co



EZ-KU20

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:

Kubota, 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:

  **Kubota LEROY SOMER**™

STAMFORD
power generation

 **DSE**



Output Rating:

| PRIME: | STANDBY: |
|---------------------------|----------------------|
| 60 Hz—1800 Rpm 480 V, 3ph | |
| 18 kVA | 14.4 kW 20 kVA 16 kW |

ENGINE SPECIFICATIONS

| | |
|-------------------|------------------------|
| Engine Make | KUBOTA |
| Engine Model | D1703-E2-BG |
| No. of Cylinders | 3 vertical in-line |
| Cycle | 4 Strokes |
| Induction System | Naturally Aspirated |
| Cooling Method | Water cooled |
| Governing Type | Isochronous Electronic |
| Compression Ratio | 22.6 |
| Displacement | 1.647 L |
| Bore/Stroke | 87 x 92.4 |

ALTERNATOR SPECIFICATIONS

| | |
|------------------------------|------------------------|
| Alternator Make | Leroy Somer I Stamford |
| Alternator Model | TAL-040-F |
| Number of Poles | 4 |
| Winding Pitch | 2/3 |
| Insulation Class - Temp Rise | H |
| Ingress Protection Rating | IP 23 |
| Excitation System | SHUNT |
| AVR Model | R120 |

COMPLY WITH STANDARDS

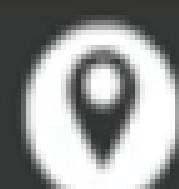
ISO 3046, BS 5514, DIN 6271, NEMA-MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2

ALTERNATOR OPERATING DATA

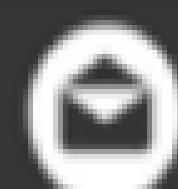
| | |
|--------------------------|-------------|
| Over speed | 2250 rpm |
| Voltage Regulation | + 1% _ |
| Harmonic Coefficient THF | < 3.5% |
| Tel. influence TIF | < 50 |
| Cooling air flow | 0.07m3/ Sec |



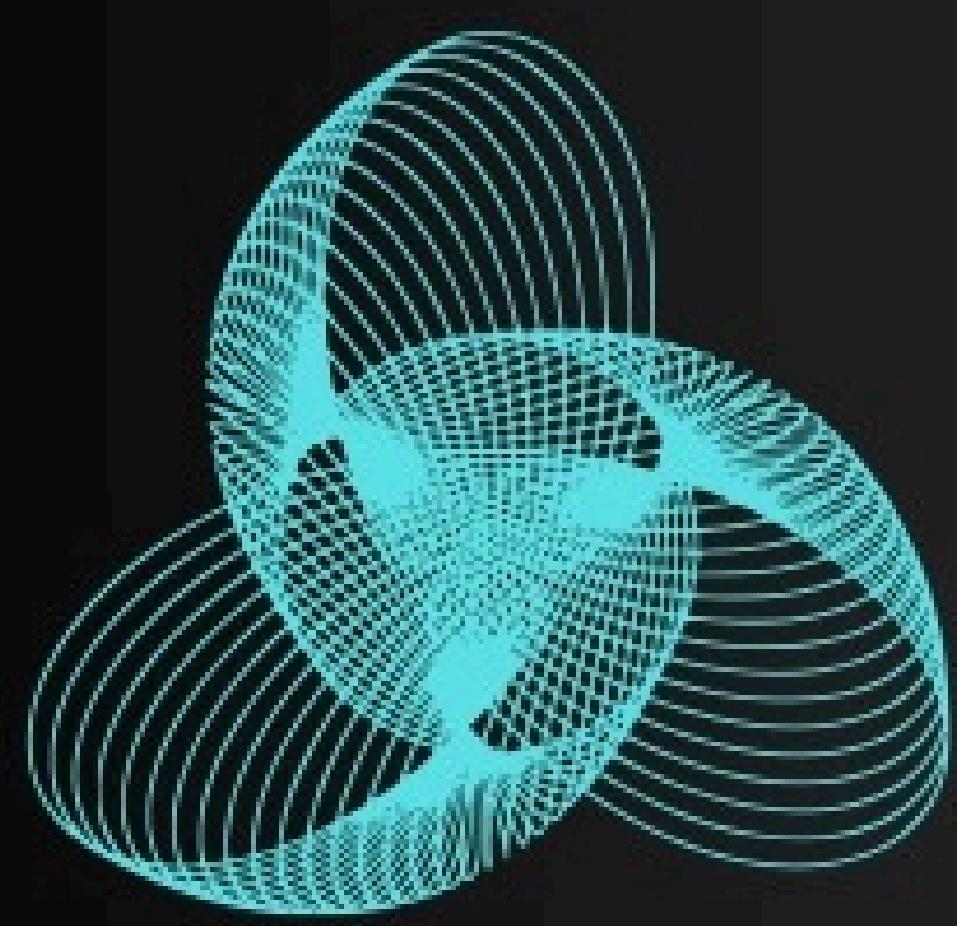
+966 556660440



Riyad | Jeddah | Tabuk



Info@EZ-power.co



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

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

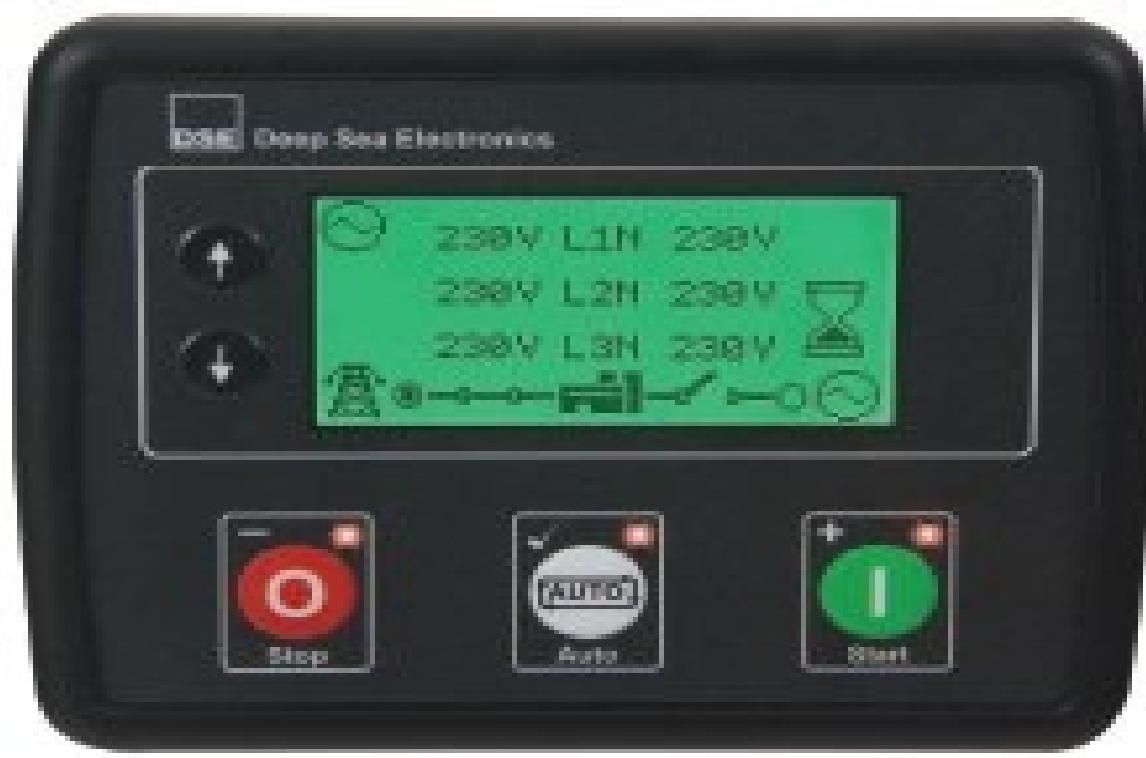
4 configurable analogue/digital inputs

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



DSE4520 MKII

AUTO START & AUTO MAINS FAILURE CONTROL

Dimensions:

| Type | Length (mm) | Width (mm) | Height (mm) | Fuel Tank (L) | Weight (KG) |
|--------|-------------|------------|-------------|---------------|-------------|
| OPEN | 1650 | 775 | 1175 | 100 | 800 |
| CLOSED | 2000 | 950 | 1495 | 100 | 1300 |



Acoustic Enclosure Specifications:

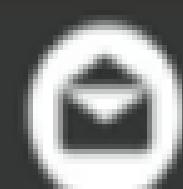
| Enclosure Type | Acoustic & Weather Proof |
|---------------------------|---|
| Drainage Provision | Fuel and Water Drainage |
| Transportation | Tested Single Point Lifting Facility & Forklift Pockets |
| Ingress Protection Rating | IP 23 |
| Lifting | ISO Standard Lifting TAL |
| Canopy RAL Color | 9010 RAL 9011 |
| Base frame RAL Color | |
| Noise Pressure level @ 7m | 66db(A) @ 7mt |



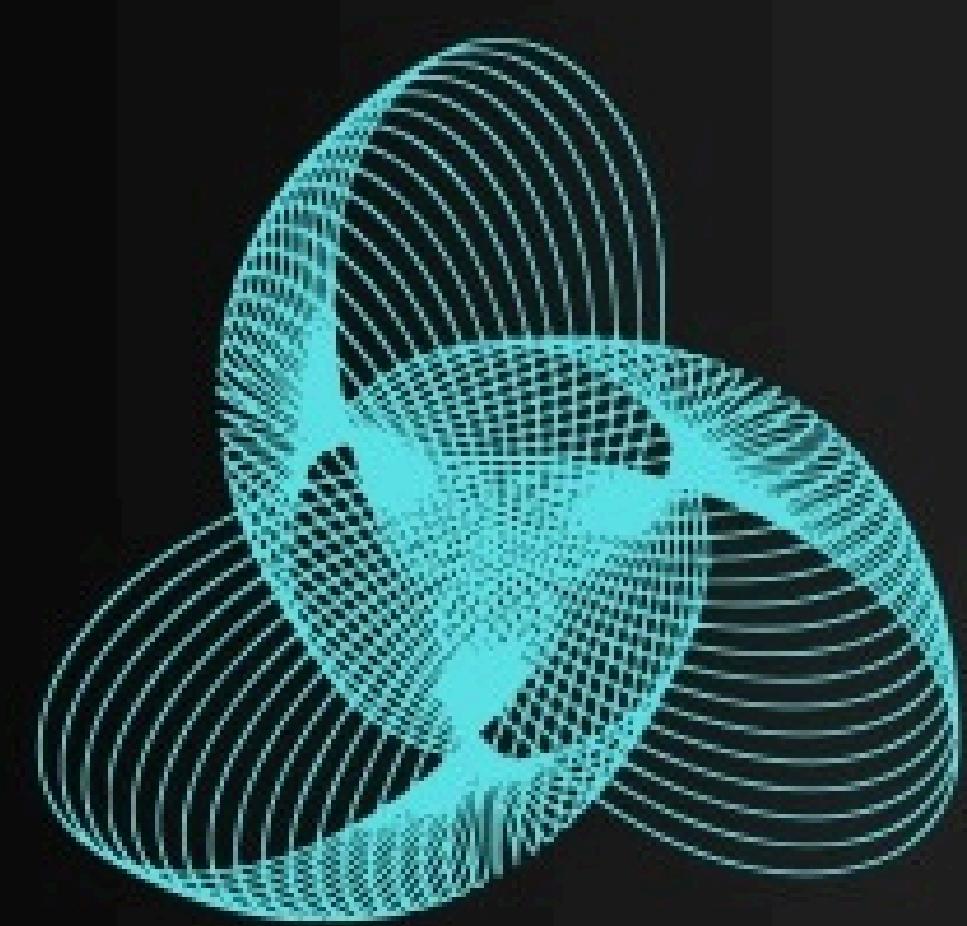
+966 556660440



Riyad | Jeddah | Tabuk



Info@ez-power.co



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

ez-power.co



Engine:



COOLING SYSTEM

| | |
|------------------------|---------------------------|
| Total Coolant Capacity | (L) 5.5 |
| Cooling Fan Air Flow | 0.07 m ³ / min |
| Radiator Fan Load | 0.61 |

LUBRICATION SYSTEM

| | |
|--------------------|---------------------|
| Total Oil Capacity | 5.6 L |
| Oil Type | API-CH-4 or ACEA E5 |

EXHAUST SYSTEM

| | |
|----------------------------|------------------|
| Muffler Type | Industrial Grade |
| Max. Back Pressure | 7.1 |
| Exhaust Gas Flow (PRP/ESP) | 3.87 |
| Exhaust Gas Temperature | 500 |

FUEL SYSTEM

| | |
|-----------------------|-----------------|
| Recommended Fuel | Class A2 Diesel |
| Fuel Consumption 100% | 3.9 |
| Fuel Consumption 75% | 2.925 |
| Fuel Consumption 50% | 1.95 |
| Fuel Consumption 25% | 0.975 |

| | |
|-----------------------------------|------------------------------------|
| Air Filter Type | |
| Combustion Air Flow (PRP) | Dry Element |
| Combustion Air Flow (ESP) | 1.10 m ³ /min |
| Max Air Filter Intake Restriction | 1.10 m ³ /min 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
- (ComP, DEIF)
- Other

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 :

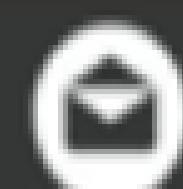
- 400/230V, 480/277V, 380/220V, 440/254V,
- 416/240V, 220/127V, 208/120V



+966 556660440



Riyad | Jeddah | Tabuk



Info@Ez-power.co