

# EZ-KU12

## 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			
10.7 kVA	8.56 kW	12.1 kVA	9.68 kW

### ENGINE SPECIFICATIONS

Engine Make	KUBOTA
Engine Model	D1105-E2-BG
No. of Cylinders	3 vertical in-line
Cycle	4 Strokes
Induction System	Naturally Aspirated
Cooling Method	Water cooled
Governing Type	Mechanical +/-5% (Electronic)
Compression Ratio	24
Displacement	1.123 L
Bore/Stroke	78x78.4

### ALTERNATOR SPECIFICATIONS

Alternator Make	Leroy Somer I Stamford
Alternator Model	TAL-040-C
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

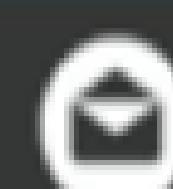
Over speed	2250 rpm
Voltage Regulation	+ 1% -
Harmonic Coefficient THF	< 3.5%
Tel. influence TIF	< 50
Cooling air flow	0.07m³/ Sec



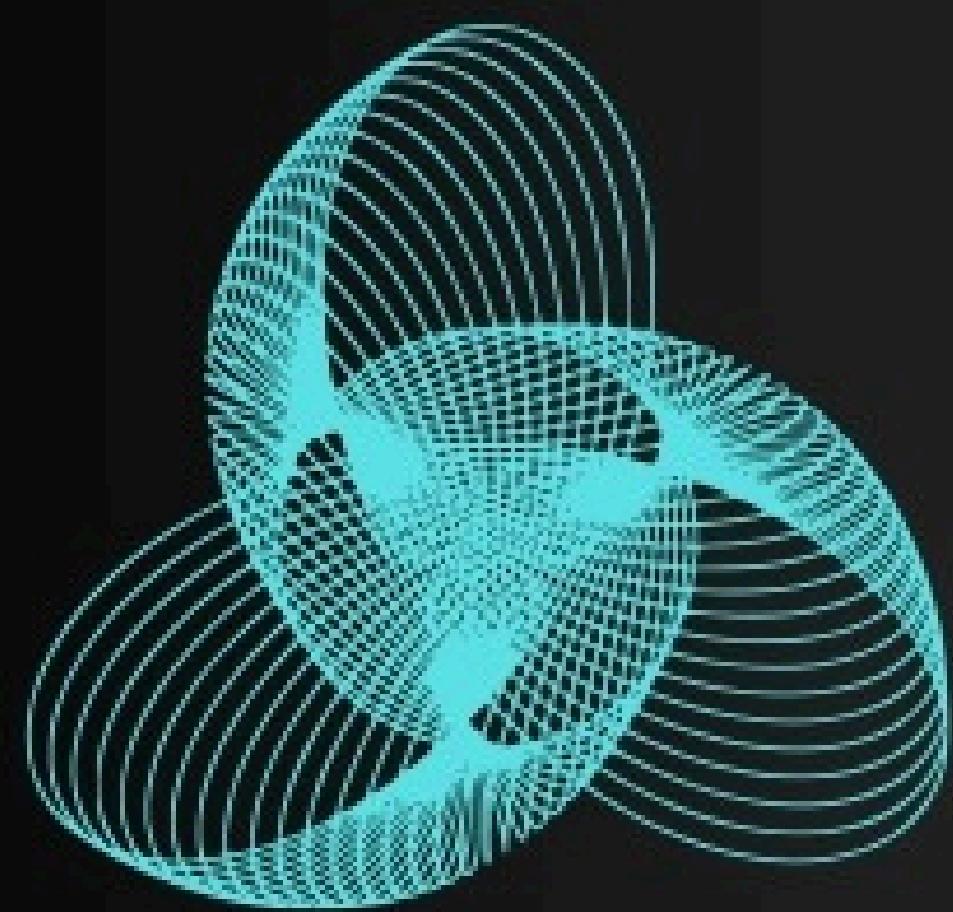
+966 556660440



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 first hours whichever occurs 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

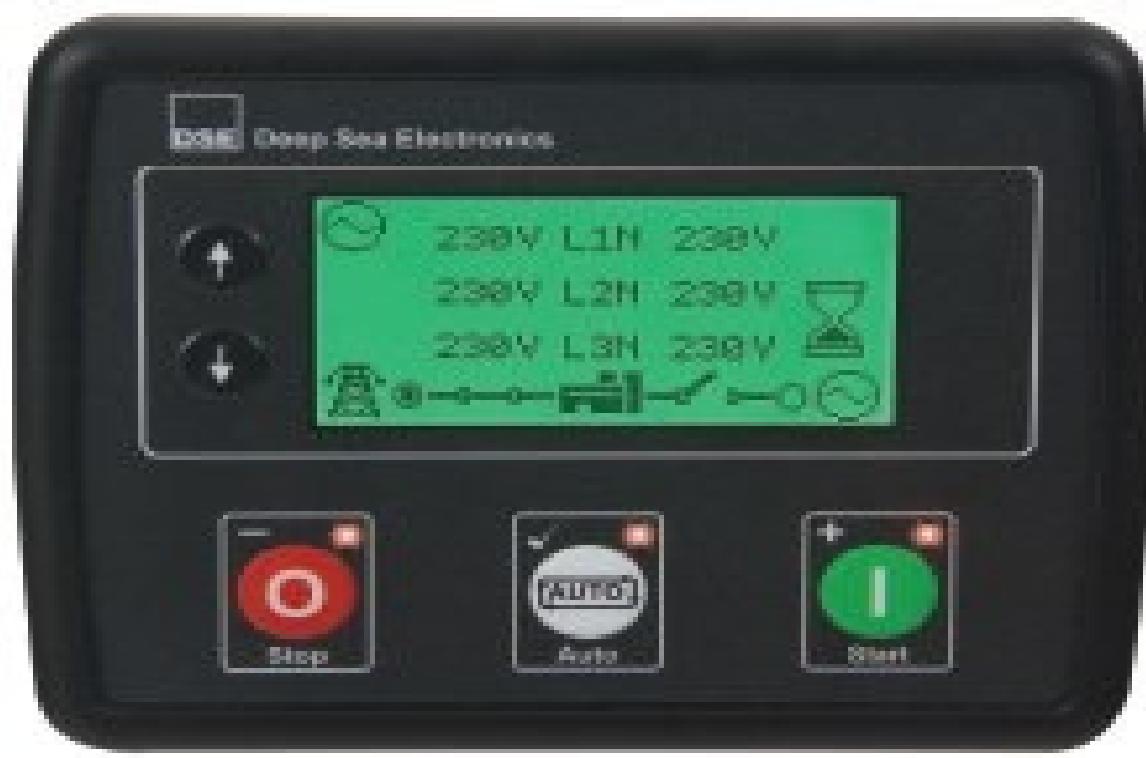
4 configurable analogue/digital inputs

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

	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	1450	700	900	100	325
CLOSED	1560	760	960	100	525



## Acoustic Enclosure Specifications:

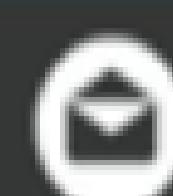
Enclosure Type	Acoustic & Weather Proof
Drainage Provision	Fuel and Water Drainage
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Ingress Protection Rating	IP 23
Lifting	ISO Standard Lifting TAL
Canopy RAL Color	9010 RAL 9011
Base frame RAL Color	
Noise Pressure level @ 7m	66db(A)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



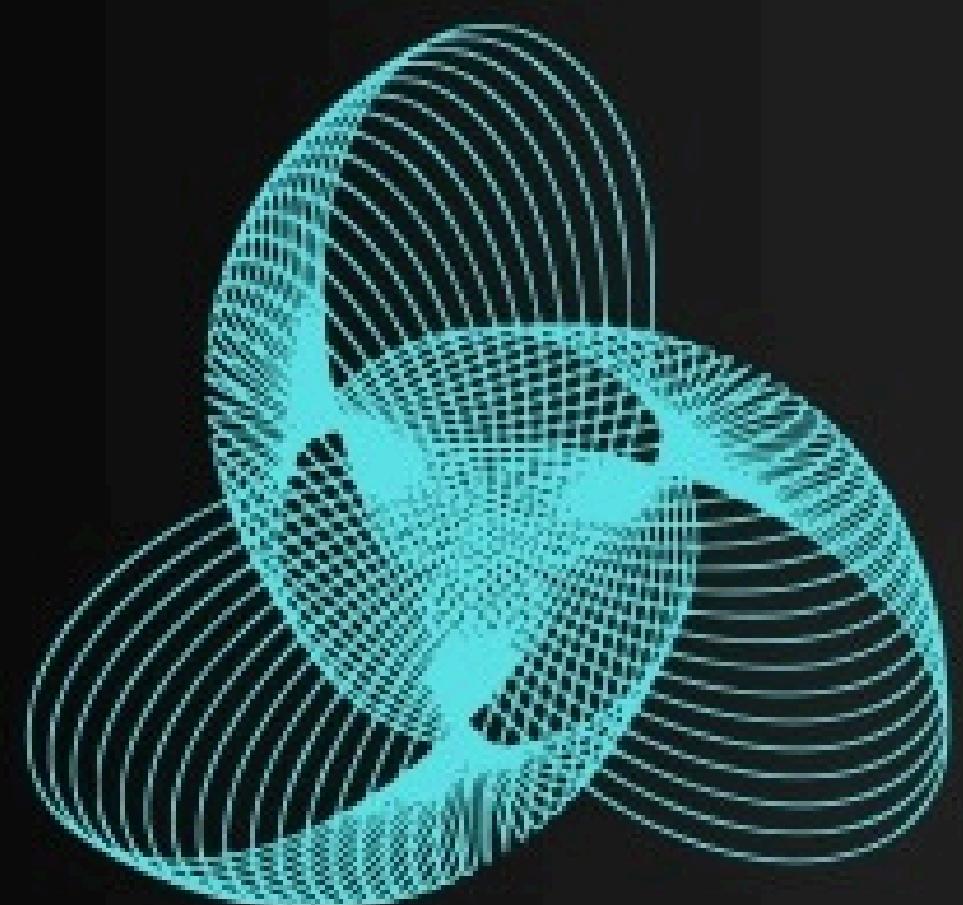
+966 556660440



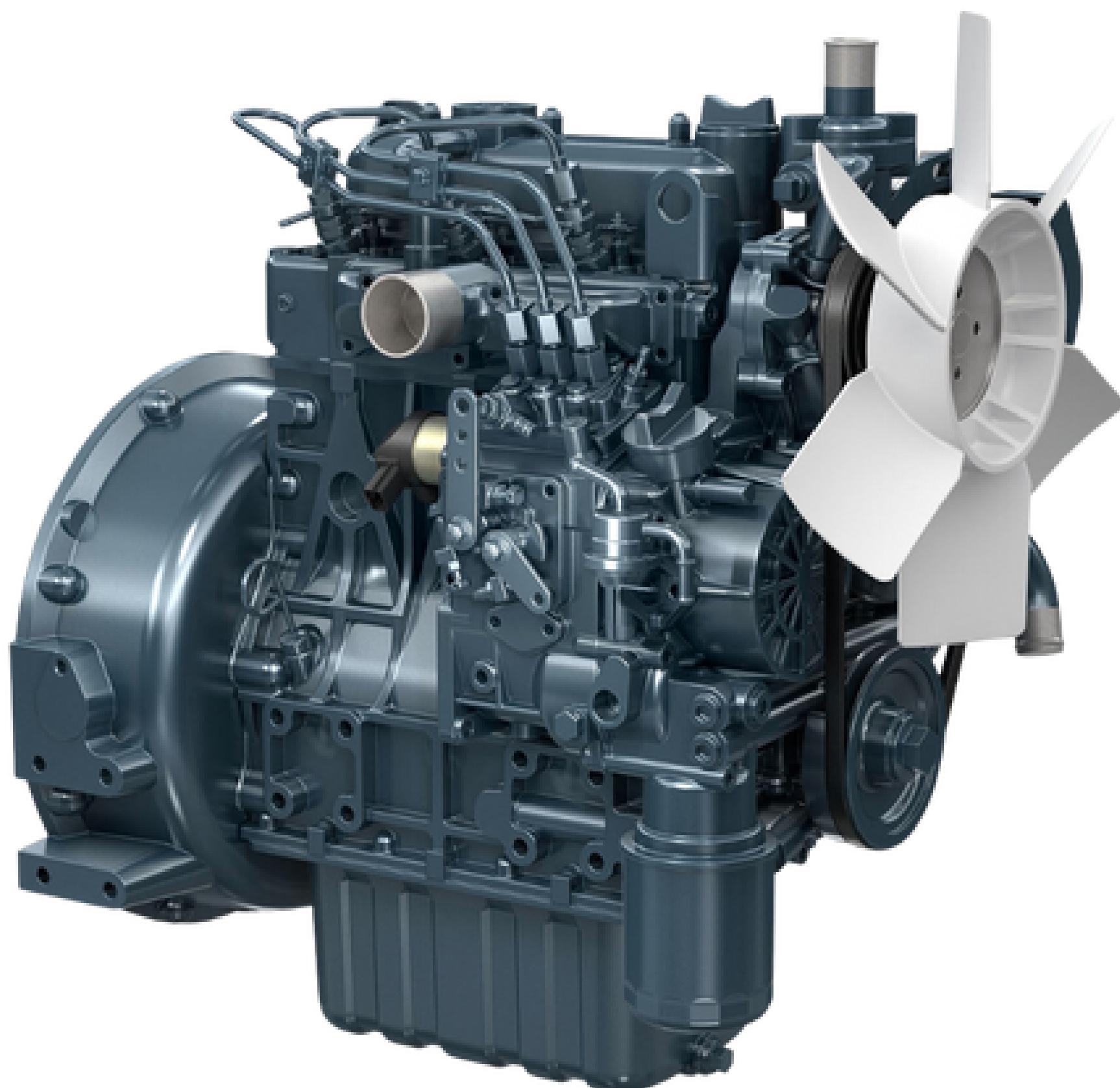
Riyad | Jeddah | Tabuk



Info@Ez-power.co



## Engine:



### COOLING SYSTEM

Total Coolant Capacity	(L) 5.1
Cooling Fan Air Flow	0.07 m <sup>3</sup> / min
Radiator Fan Load	0.44

### LUBRICATION SYSTEM

Total Oil Capacity	5.1 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)	2.64
Exhaust Gas Temperature	500

### FUEL SYSTEM

Recommended Fuel	Class A2 Diesel
Fuel Consumption 100%	2.6
Fuel Consumption 75% PRP	1.95
Fuel Consumption 50% PRP	1.3
Fuel Consumption 25% PRP	0.65

Air Filter Type	Dry Element
Combustion Air Flow (PRP)	1.10 m <sup>3</sup> /min
Combustion Air Flow (ESP)	1.10 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
- (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

