

# EZ-POWER

## EQUIPMENT

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# 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:



### Output Rating:

PRIME:		STANDBY:	
60 Hz—1800 Rpm 4 80 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

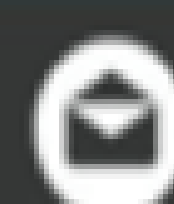
Over speed	2250 rpm
Voltage Regulation	+ 1% _
Harmonic Coefficient THF	< 3.5%
Tel. influence TIF	< 50
Cooling air flow	0.07m <sup>3</sup> / Sec



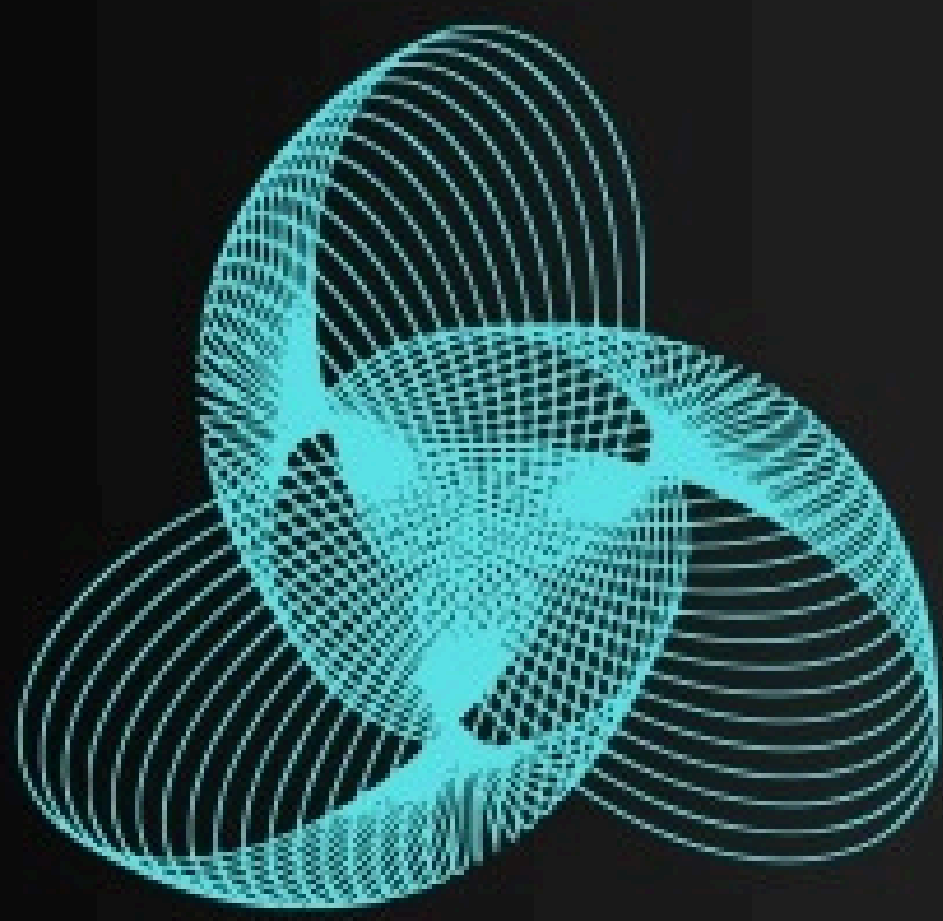
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### Standard Specifications:

#### 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

### 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:

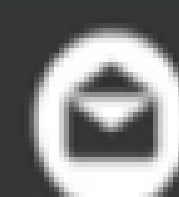
Enclosure Type	Acoustic & Weather Proof
Drainage Provision	Fuel and Water Drainage
Transportation	Tested Single Point Lifting Facility & Forklift Pockets
Ingress Protection Rating	IP 23
Lifting	ISO Standard Lifting TAL
Canopy RAL Color	9010 RAL 9011
Base frame RAL Color	
Noise Pressure level @ 7m	66db(A)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



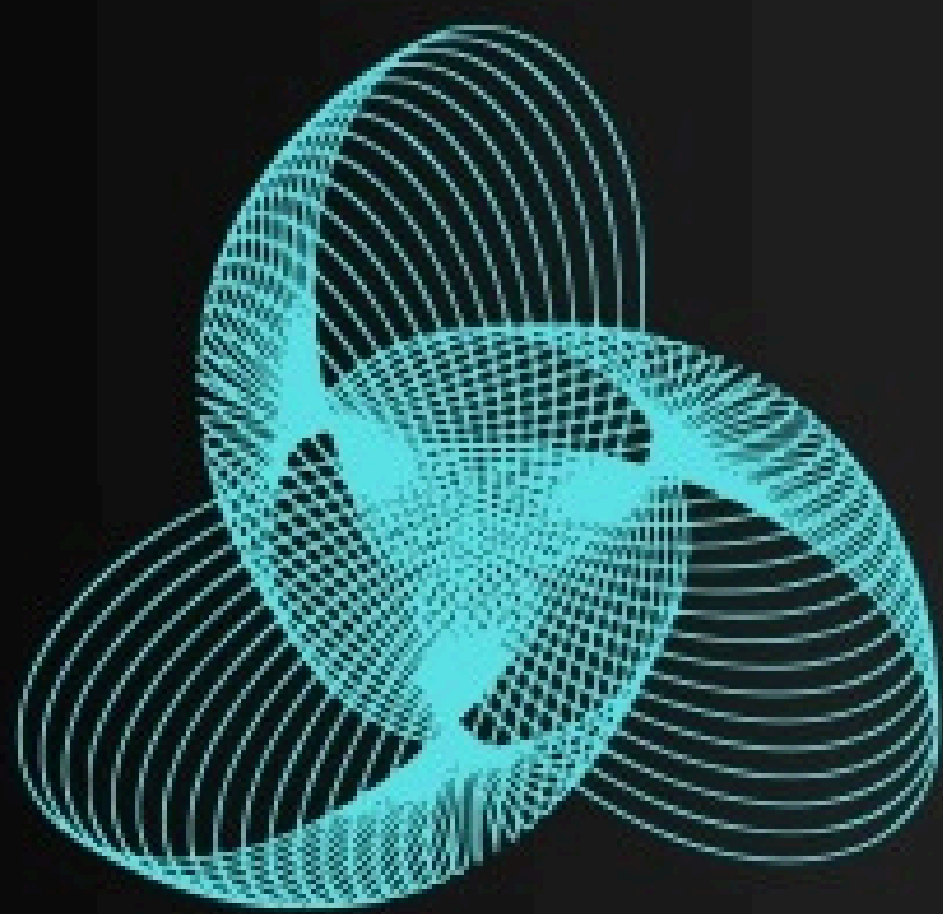
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Engine:



COOLING SYSTEM	
Total Coolant Capacity	(L) 5.5
Cooling Fan Air Flow	0.07 m3/ 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	Dry Element
Combustion Air Flow (PRP)	1.10 m3/min
Combustion Air Flow (ESP)	1.10 m3/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



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