

# EZ-KU49

## 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			
45 kVA	36 kW	49 kVA	39.2 kW

### ENGINE SPECIFICATIONS

Engine Make	KUBOTA
Engine Model	V3300-T-E2-BG
No. of Cylinders	4 vertical in-line
Cycle	4 Strokes
Induction System	Turbo Charged
Cooling Method	Water cooled
Governing Type	Isochronous Electronic
Compression Ratio	21.8
Displacement	3.769 L
Bore/Stroke	100 x 120

### ALTERNATOR SPECIFICATIONS

Alternator Make	Leroy Somer I Stamford
Alternator Model	TAL-042-H
Number of Poles	4
Winding Pitch	2/3
Insulation Class - Temp Rise	H
Ingress Protection Rating	IP 23
Excitation System	SHUNT
AVR Model	R120

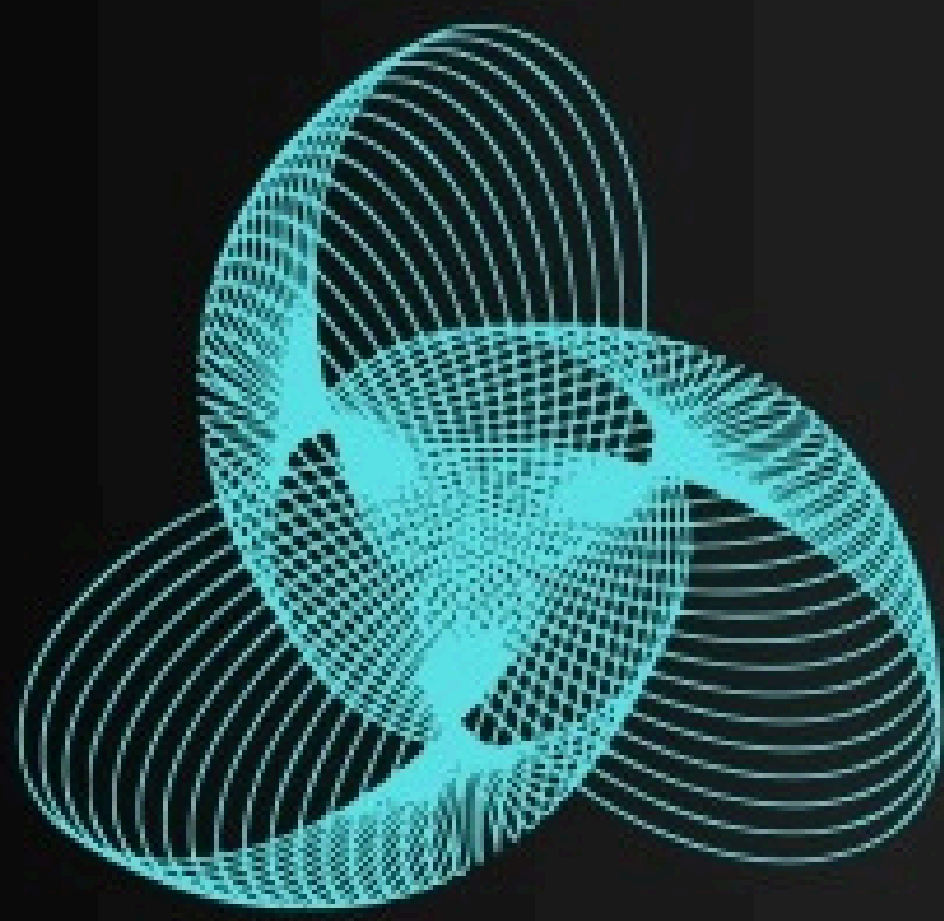
### COMPLY WITH STANDARDS

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	0.13m3/ Sec





# EZ-POWER

## EQUIPMENT

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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	1950	775	1175	100	850
CLOSED	2260	1110	1500	100	1350



### 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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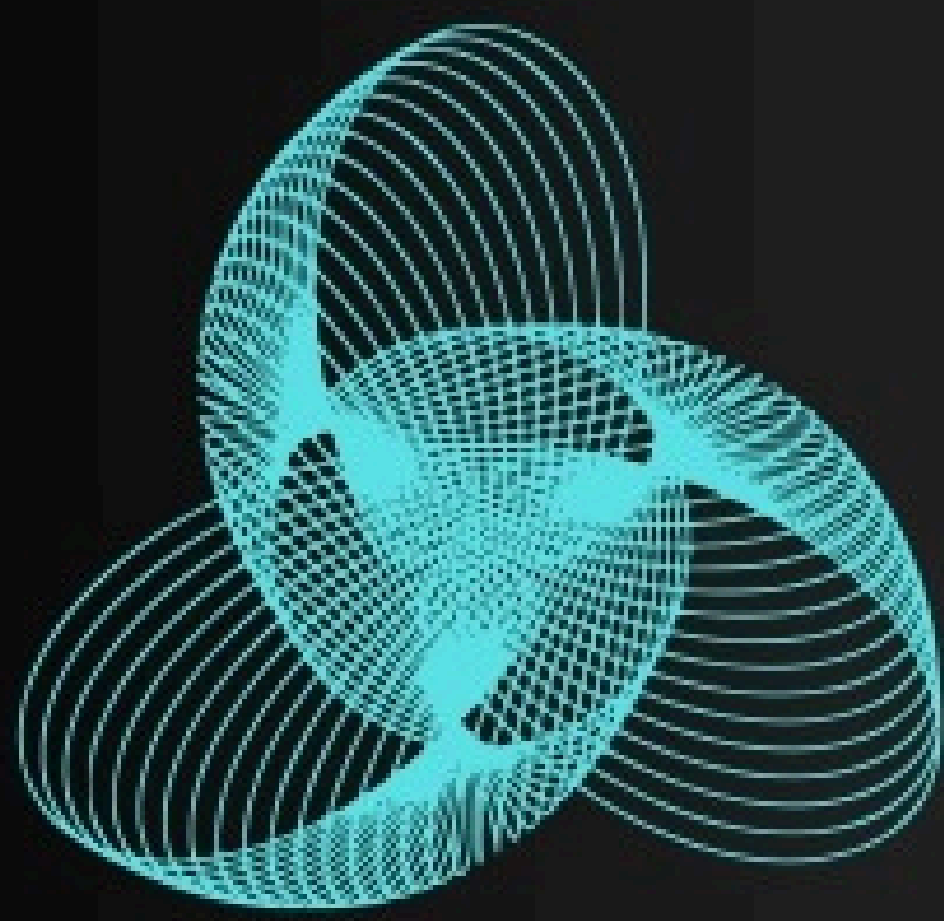


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### Engine:



#### COOLING SYSTEM

Total Coolant Capacity	(L) 13.2
Cooling Fan Air Flow	0.13 m3/ min
Radiator Fan Load	1.49

#### LUBRICATION SYSTEM

Total Oil Capacity	13.2 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)	10.7
Exhaust Gas Temperature	500

#### FUEL SYSTEM

Recommended Fuel	Class A2 Diesel
Fuel Consumption 100%	9.3
Fuel Consumption 75%	6.975
Fuel Consumption 50%	4.65
Fuel Consumption 25%	2.325

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 :

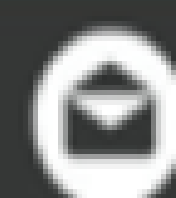
400/230V, 480/277V, 380/220V, 440/254V,  
416/240V,220/127V, 208/120V



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