

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.

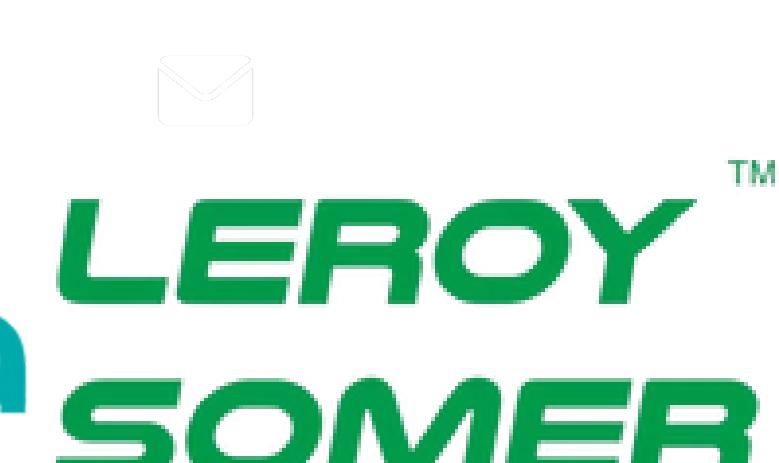
4- Alternator Type:

brushless AC alternator

5- Radiator:

50°C, fan protective shroud

Powered By:

 **KUBOTA**  **LEROY SOMER**™

STAMFORD
power generation

 **DSE**



Output Rating:

PRIME:	STANDBY:
60 Hz—1800 Rpm 480 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



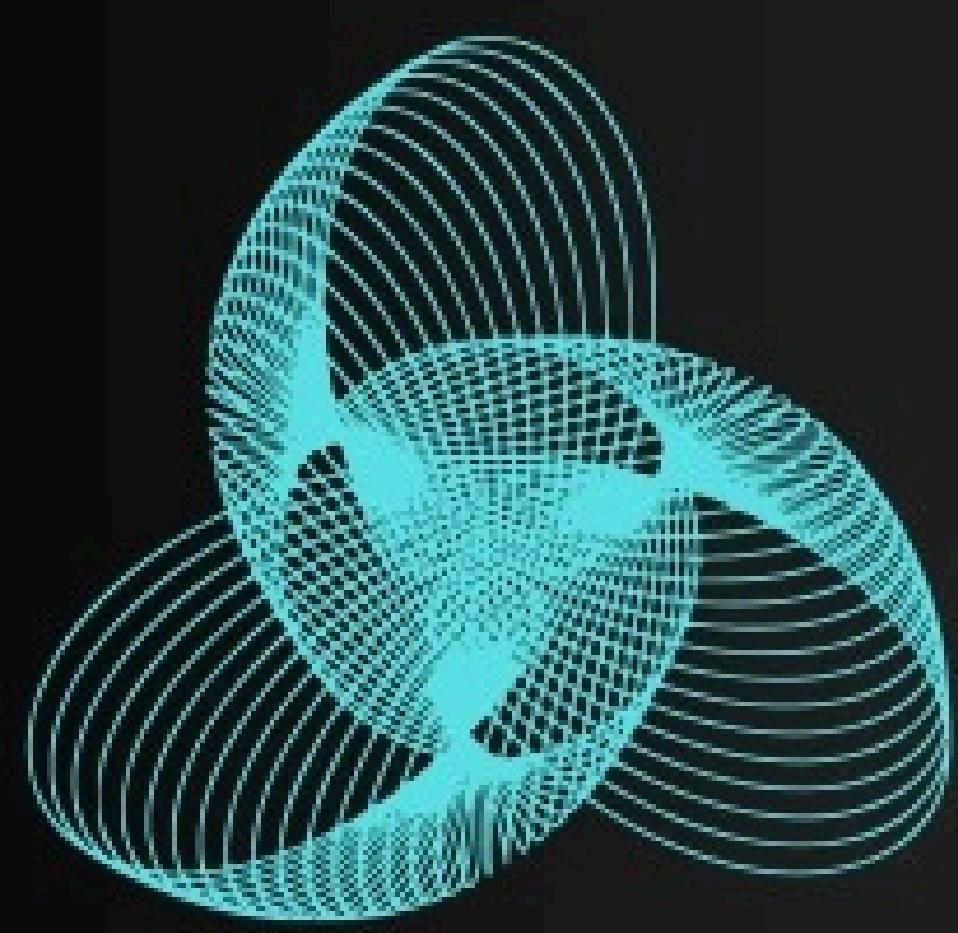
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Standard Specifications:

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 TAL
Canopy RAL Color	9010 RAL 9011
Base frame RAL Color	
Noise Pressure level @ 7m	66db(A) @ 7mt

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



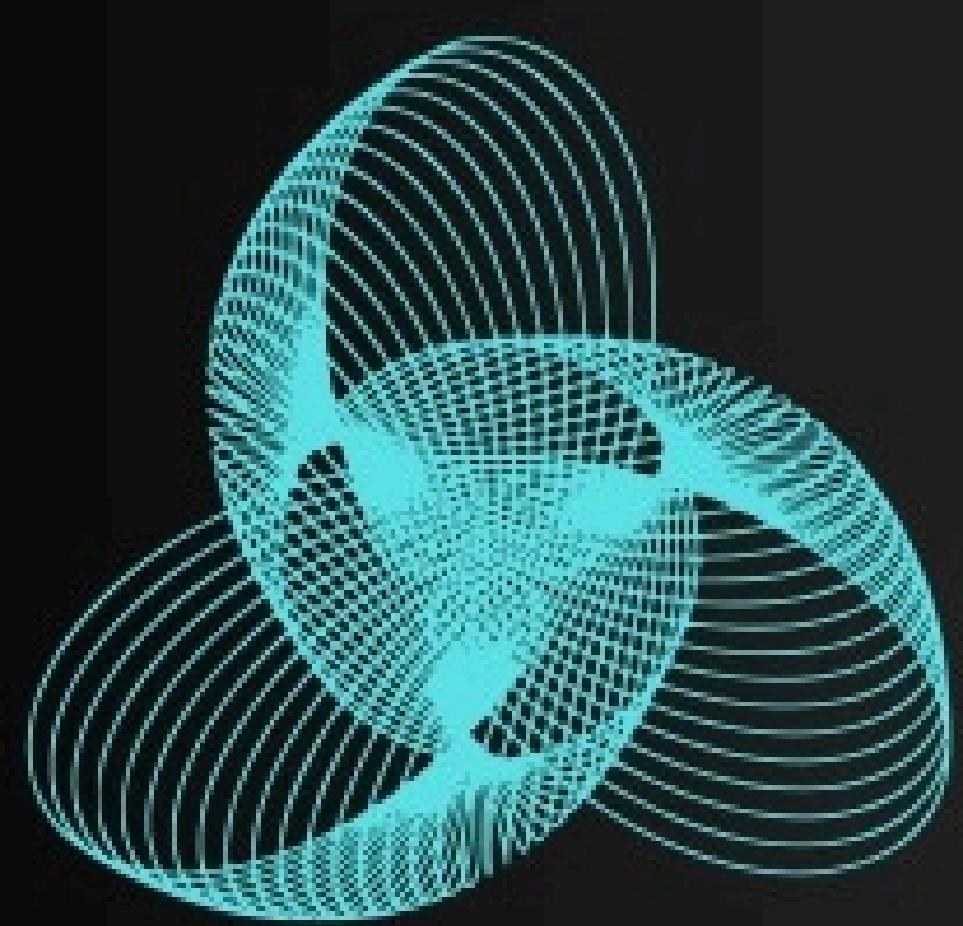
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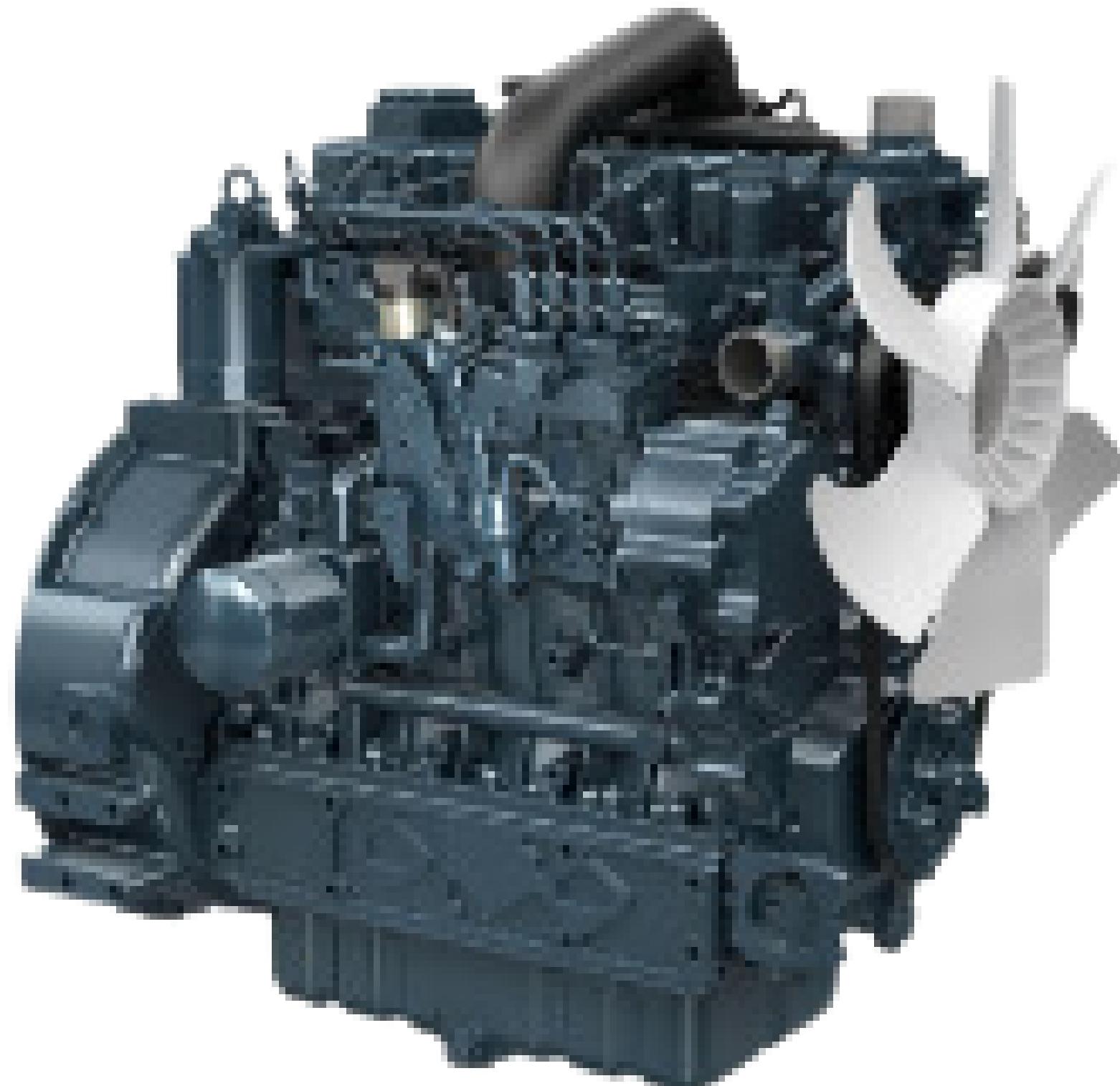
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Engine:



COOLING SYSTEM

Total Coolant Capacity	(L) 13.2
Cooling Fan Air Flow	0.13 m ³ / 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 m ³ /min
Combustion Air Flow (ESP)	1.10 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
- (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

