

EZ-CU169

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:

Cummins, 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:



**LEROY
SOMER** TM

STAMFORD
power generation



Output Rating:

PRIME:

60 Hz—1800 Rpm 480 V, 3ph

152 kVA

121 kW

STANDBY:

169 kVA

135 kW

Voltage ranges available: from 380V to 480V (60Hz). De-rating may apply.

ENGINE SPECIFICATIONS

Engine Make	CUMMINS
Engine Model	6BTA5.9G2
Type	In-line, 6-Cylinder Diesel, Turbocharged & Charged Air Cooled
Bore mm	102 mm
Stroke Model	120 mm
Displacement	5.9 L
Flywheel Dimensions	3/11.5
Battery Charging Alternator	37 amps
Starting Voltage	12 volt
Fuel System	BYC PB/GAC 24 V
Fuel Filter	Spin on fuel filters
Lube Oil Filter and Capacity (L)	Spin on full flow filter - 14.2 Litres

ALTERNATOR SPECIFICATIONS

Alternator Make	Leroy Somer I Stamford
Alternator Model	TAL-A44-J I UCI274E
Number of Poles	4
Winding Pitch	2/3
Insulation Class - Temp Rise	H
Ingress Protection Rating	IP 23
Excitation System	Self Excited
AVR Model	MX341

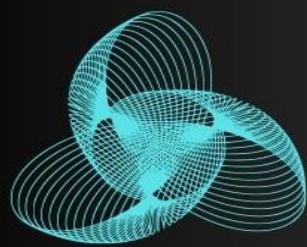
COMPLY WITH STANDARDS

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	0.617 m3/ Sec





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:

LS

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



DSE 4520

AUTO START & AUTO MAINS
FAILURE CONTROL

Dimensions:

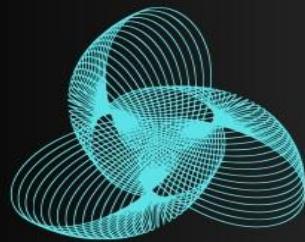
Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	2550	1260	1900	296	1750
CLOSED	3894	1355	2208	543	2310

Note: The following dimensions are for preliminary guidance. For more detailed and accurate dimensions, please refer to the General Arrangement Drawing (GAD).

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
Canopy RAL Color	TAL 9010
Base frame RAL Color	RAL 9011
Noise Pressure level @ 7m 77 dB(A)	





Engine:



COOLPAC PERFORMANCE DATA

Cooling System Design	Jacket Water cooled
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (L)	10
Limiting Ambient Temp.	50 Degree Celsius
Fan Power Kw	2.7
Cooling System Air Flow (m3/s)	0.25
Air Cleaner Type	Dry replaceable element with restriction indicator

FUEL CONSUMPTION 1500 (50 HZ)

Fuel Consumption @ 110%	34
Fuel Consumption @ 100%	30
Fuel Consumption @ 75%	23
Fuel Consumption @ 50%	16
Fuel Consumption @ 25%	9

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

