

# EZ-POWER

## EQUIPMENT

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# 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



### Output Rating:

PRIME:		STANDBY:	
60 Hz—1800 Rpm 480 V, 3ph			
158 kVA	126 kW	169 kVA	135 kW

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

### ENGINE SPECIFICATIONS

Engine Make	CUMMINS
Engine Model	6BTA5.9G6
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   Stamford
Alternator Model	TAL-A44-J   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



**LEROY  
SOMER**

**STAMFORD**  
power generation



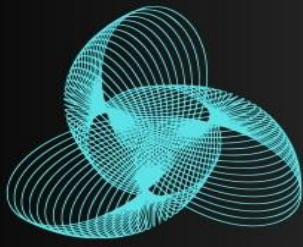
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### Standard Specifications:

#### 6- Fuel Tank:

Capacity of fuel tank is for 8-10 hours running  
Built in fuel tank up to 800 kVA

#### 7- Circuit Breaker:

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)



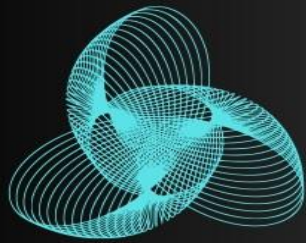
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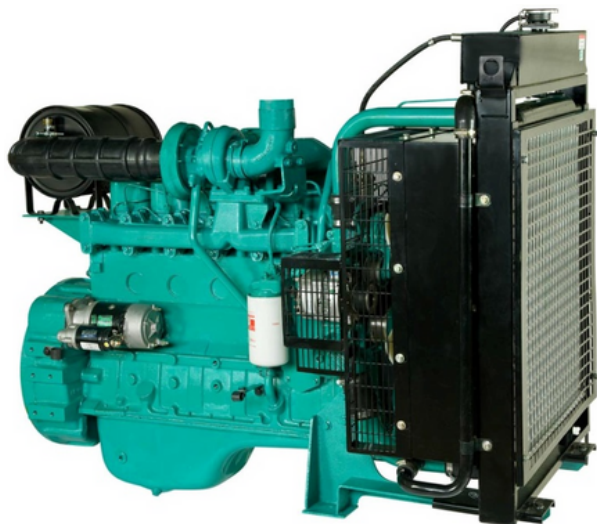


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## Engine:



### 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



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