

# EZ-CU220

## 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

200 kVA

160 kW

#### STANDBY:

220 kVA

176 kW

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

### ENGINE SPECIFICATIONS

Engine Make	CUMMINS
Engine Model	QSB7G4
Type	4 cycle, in-line, 6-Cylinder, Turbo Charged
Bore mm	107 mm (4.21 in.)
Stroke Model	124 mm (4.88 in.)
Displacement	6.69 litre
Flywheel Dimensions	SAE2
Battery Charging Alternator	100 amps
Starting Voltage	12 volt, negative ground
Fuel System	Direct Injection
Fuel Filter	Spin on fuel filters with water separator
Lube Oil Filter and Capacity (L)	Spin on full flow filter - 18.9 Litres

### ALTERNATOR SPECIFICATIONS

Alternator Make	Leroy Somer   Stamford
Alternator Model	TAL-A44-L   UCI274G
Number of Poles	4
Winding Pitch	2/3
Insulation Class - Temp Rise	H
Ingress Protection Rating	IP 23
Excitation System	SHUNT
AVR Model	SX460   AS440

### 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	0.48 m3/ Sec



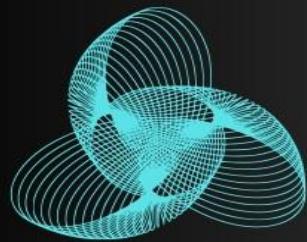
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## Standard Specifications:

### 6- Fuel Tank:

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

### 7- Circuit Breaker:

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	2800	900	1650	434	1800
CLOSED	3764	1155	1881	450	2170

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 @ 7m78 dB(A) ± 3dB(A)



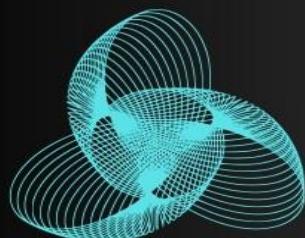
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## Engine:



### COOLPAC PERFORMANCE DATA

Cooling System Design	Air-Air Charge Cooled
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (L)	26
Limiting Ambient Temp.	60
Fan Power Kw	6.9
Cooling System Air Flow (m3/s)	5.3
Air Cleaner Type	Light duty dry replaceable element with restriction indicator

### FUEL CONSUMPTION 1500 (50 HZ)

Fuel Consumption @ 110%	48
Fuel Consumption @ 100%	42
Fuel Consumption @ 75%	34
Fuel Consumption @ 50%	24
Fuel Consumption @ 25%	12

## 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

