

# EZ-CU688

## 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

625 kVA

#### STANDBY:

500 kW 688 kVA 550 kW

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

### ENGINE SPECIFICATIONS

Engine Make	CUMMINS
Engine Model	QSK19G4
Type	4 cycle, 6-cylinder turbocharged
Bore mm	159 mm (6.25 in.)
Stroke Model	159 mm (6.25 in.)
Displacement	19 L
Flywheel Dimensions	SAE 0
Battery Charging Alternator	35 amps
Starting Voltage	24 volt, negative ground
Fuel System	Cummins direct injection MCRS
Fuel Filter	Spin-on fuel filters with water separator
Lube Oil Filter and Capacity (L)	Spin on full flow filter - 84 Litres

### ALTERNATOR SPECIFICATIONS

Alternator Make	Leroy Somer   Stamford
Alternator Model	TAL-A47-E I HCI544F/S5L1D-F41
Number of Poles	4
Winding Pitch	2/3
Insulation Class - Temp Rise	H
Ingress Protection Rating	IP 23
Excitation System	Self Excited
AVR Model	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	1.12m <sup>3</sup> / Sec



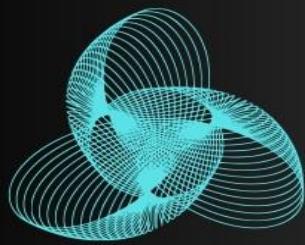
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## Standard Specifications:

### 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

## 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 85 dB(A)	

## 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 6120**

AUTO START & AUTO MAINS  
FAILURE CONTROL

## Dimensions:

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	3910	2010	2705	1570	6480
CLOSED	5873	2224	2817.8	1835	8815

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



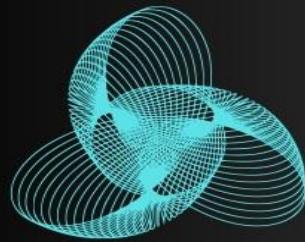
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## Engine:



### COOLPAC PERFORMANCE DATA

Cooling System Design	Air-Air Charge Cooled
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (L)	
Limiting Ambient Temp.	
Fan Power Kw	
Cooling System Air Flow (m <sup>3</sup> /s)	Engine only- not applicable
Air Cleaner Type	Dry replaceable element with restriction indicator

### FUEL CONSUMPTION 1500 (50 HZ)

Fuel Consumption @ 110%	161
Fuel Consumption @ 100%	147
Fuel Consumption @ 75%	111
Fuel Consumption @ 50%	78
Fuel Consumption @ 25%	40

## 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

