

## EZ-CU 1875

### 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	1875 kVA	1500 kW
1619 kVA	1295 kW		

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

#### ENGINE SPECIFICATIONS

Engine Make	CUMMINS
Engine Model	KTA50-G9
Type	4cycle, 60°Vee, turbocharged, Low-temp aftercooled, 16-cylinder
Bore mm	159 mm (6.25 in.)
Stroke Model	159 mm (6.25 in.)
Displacement	50.3 litre (3067 in.3 )
Flywheel Dimensions	SAE 0
Battery Charging Alternator	35 amps
Starting Voltage	24 volt -negative ground
Fuel System	Cummins PT™ direct injection
Fuel Filter	Dual spin paper element fuel filters w/ standard water separator
Lube Oil Filter and Capacity (L)	Spin on full flow filter - 204 Litres

#### ALTERNATOR SPECIFICATIONS

Alternator Make	Leroy Somer   Stamford
Alternator Model	LSA51.2 S55   S7L1D-D41 4
Number of Poles	2/3
Winding Pitch	H
Insulation Class - Temp Rise	IP 23
Ingress Protection Rating	SEPARATELY EXCITED BY P.M.G.
Excitation System	MX341
AVR Model	

#### 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	2.69m3/ Sec

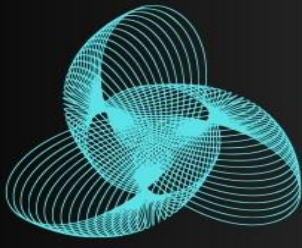
#### Powered By:



**LEROY  
SOMER**

**STAMFORD**  
power generation





## 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:

ACB - schneider

### 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, kVAh)

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:

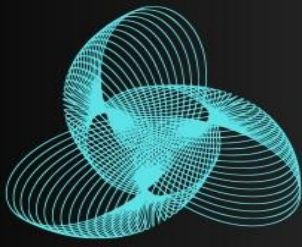
Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	5830	2280	3065	2840	12700
CLOSED	30 Feet HC container			-	18400

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

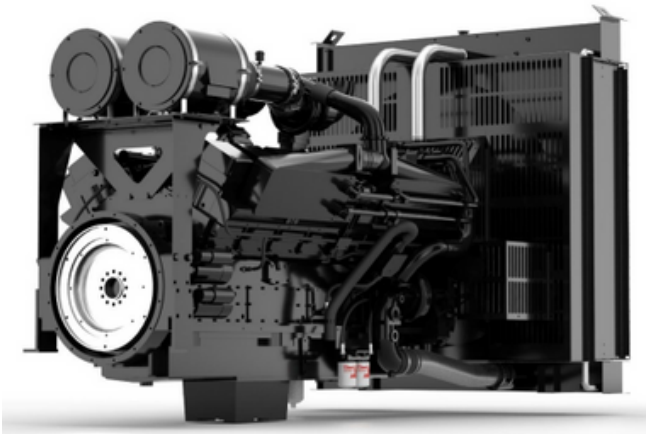
## Acoustic Enclosure Specifications:

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	80 dB(A)





## Engine:



### COOLPAC PERFORMANCE DATA

Cooling System Design	2 pump / 2 loop
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (L)	240.0
Limiting Ambient Temp.	50.0 Degree Celsius
Fan Power Kw	33
Cooling System Air Flow (m3/s)	28.2
Air Cleaner Type	Dry replaceable element with restriction indicator

### FUEL CONSUMPTION 1800 (60 HZ)

Fuel Consumption @ 110%	392
Fuel Consumption @ 100%	330
Fuel Consumption @ 75%	257
Fuel Consumption @ 50%	180
Fuel Consumption @ 25%	111

## 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

