

# EZ-CU1578

## 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:	STANDBY:
60 Hz—1800 Rpm 480 V, 3ph	
1404 kVA	1123 kW

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

### ENGINE SPECIFICATIONS

Engine Make	CUMMINS
Engine Model	KTA50-G3
Type	4 cycle, 60-degree Vee, turbocharged, Low-temp aftercooled
Bore mm	159 mm (6.25 in.)
Stroke Model	159 mm (6.25 in.)
Displacement	50.3 litre
Flywheel Dimensions	SAE 0
Battery Charging Alternator	55 amps
Starting Voltage	24 volt - negative round
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 - 177 Litres

### ALTERNATOR SPECIFICATIONS

Alternator Make	Leroy Somer   Stamford
Alternator Model	LSA50.2 M I S6L1D-H414
Number of Poles	2/3
Winding Pitch	H
Insulation Class - Temp Rise	IP 23
Ingress Protection Rating	SHUNT
Excitation System	MX341
AVR Model	

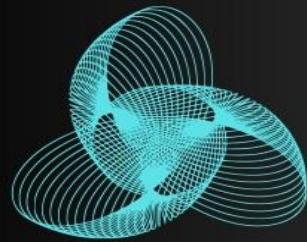
### COMPLY WITH STANDARDS

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	1.89m <sup>3</sup> / 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:

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, 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:

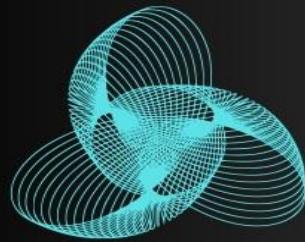
Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
OPEN	5000	2000	2496	-	10100
CLOSED	30 Feet container			-	14600

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

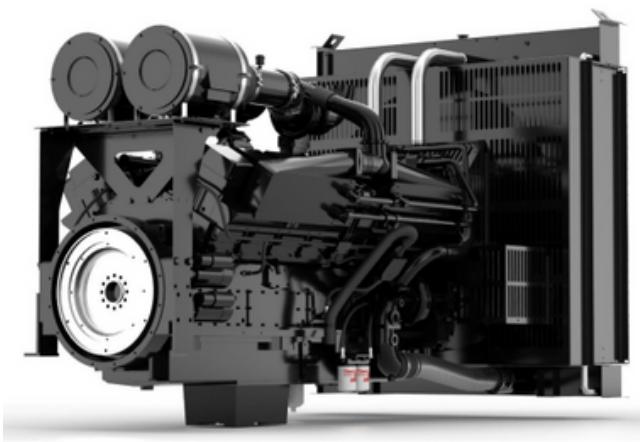
## Acoustic Enclosure Specifications:

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 88 dB(A)	





## Engine:



### COOLPAC PERFORMANCE DATA

Cooling System Design	1 pump / 2 loop
Coolant Ratio	50% ethylene glycol; 50% water
Coolant Capacity (L)	152
Limiting Ambient Temp.	55.6 Degree Celsius
Fan Power Kw	21.0
Cooling System Air Flow (m3/s)	30.3
Air Cleaner Type	Dry replaceable element with restriction indicator

### FUEL CONSUMPTION 1500 (50 HZ)

Fuel Consumption @ 110%	293
Fuel Consumption @ 100%	261
Fuel Consumption @ 75%	199
Fuel Consumption @ 50%	139
Fuel Consumption @ 25%	76

## 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

