

EZ-CU563

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 512 kVA | 409 kW | 563 kVA | 450 kW |

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

ENGINE SPECIFICATIONS

| | |
|----------------------------------|---|
| Engine Make | CUMMINS |
| Engine Model | M15-G8 |
| Type | 4 cycle, Inline, Turbocharged and Aftercooled |
| Bore mm | 159 |
| Stroke Model | 159 |
| Displacement | 18.9 |
| Flywheel Dimensions | SAE0 |
| Battery Charging Alternator | 45A, negative ground |
| Starting Voltage | 24V |
| Fuel System | Direct Injection Cummins PT |
| Fuel Filter | Spin-on fuel filters with water separator |
| Lube Oil Filter and Capacity (L) | Spin on full flow filter - 50 Litres |

ALTERNATOR SPECIFICATIONS

| | |
|------------------------------|-------------------------------|
| Alternator Make | Leroy Somer Stamford |
| Alternator Model | TAL-A47-C HCI544D/S5L1D-C41 |
| Number of Poles | 4 |
| Winding Pitch | 2/3 |
| Insulation Class - Temp Rise | H |
| Ingress Protection Rating | IP 23 |
| Excitation System | Self Excited |
| AVR Model | SX440 |

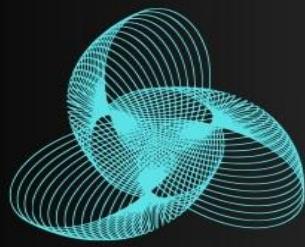
COMPLY WITH STANDARDS

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 | 1.035m ³ / 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:

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 86.2 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 | 3505 | 2005 | 2310 | 1060 | 3900 |
| CLOSED | 5205 | 1824 | 2817 | 1230 | 5393 |

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



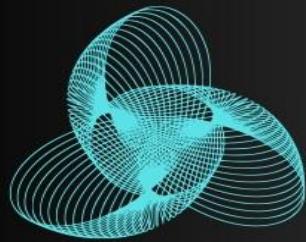
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Engine:



COOLPAC PERFORMANCE DATA

| | |
|--------------------------------|--------------------------------|
| Cooling System Design | Air-Air Charge Cooled |
| Coolant Ratio | 50% ethylene glycol; 50% water |
| Coolant Capacity (L) | 93 |
| Limiting Ambient Temp. | 50 Degree Celsius |
| Fan Power Kw | 15 |
| Cooling System Air Flow (m3/s) | 9.91 |
| Air Cleaner Type | Normal duty |

FUEL CONSUMPTION 1500 (50 HZ)

| | |
|-------------------------|-----|
| Fuel Consumption @ 110% | 121 |
| Fuel Consumption @ 100% | 107 |
| Fuel Consumption @ 75% | 82 |
| Fuel Consumption @ 50% | 57 |
| Fuel Consumption @ 25% | 30 |

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

