

E CM ST 2000

CUMMINS Series Diesel Generator Sets

STANDBY	kVA	2000
	kW	1600
DCCP	kVA	1800
	kW	1440



Water Cooled



50 hz



3 phase



Diesel



Easy maintenance



Modular type sound-proof canopy



Warning system for decreasing fuel with electronic fuel level sender



Remote control system

Emergency Standby Power: Emergency standby power, provided by diesel generators, acts as a backup during power outages. These generators kick in swiftly during emergencies, ensuring continuity for critical operations. Ideal for homes, businesses, and industries, their usage duration should be limited to prevent wear. Strict standards like NFPA 110 ensure their reliability.

Data Center Continuous Power : Data center continuous power is defined as being the maximum power which a generating set is capable of delivering while supplying a variable or continuous electrical load and during unlimited run hours, meet the Uptime Institute Tier III and IV requirements as detailed in the Uptime Institute Tier Standards: Topology. The power ratings, given above have been identified according to conditions of 100kPa barometric pressure (110m. altitude), 25°C ambient temperature.

QUALITY STANDARDS

Our generators are manufactured in compliance with TS ISO 8528-4, TS ISO 8528-5, TS ISO 8528-13, with CE Declaration.

EMSA Has ISO 9001-2015, ISO 14001-2015, ISO 45001-2018, ISO 27001, ISO 27701 and ISO 1002-2006 management system certificates from Kiwa, an accredited independent quality organization.



Engine Specifications

- CUMMINS series heavy duty diesel engine
- 4 cycle, water cooling system, turbocharged - aftercooler induction
- Electronic governor system
- 12/24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Flexible fuel pipe

MODEL	KTA50-G23	
POWER	STANDBY kW	1740
	DCCP kW	1567
SPEED (rpm)	1500	
Cycle	4	
DISPLACEMENT (lt)	50.3	
NUMBER OF CYLINDERS	16 V	
BORE AND STROKE	159 x 159	
COMPRESSION RATIO	14,7 : 1	

- Oil discharge valve and extension pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

GOVERNOR TYPE		Electronic
Induction		TURBOCHARGED - AFTERCOOLER
COMBUSTION SYSTEM		DIRECT
Cooling System		WATER
FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER	380
	75% OF PRIME POWER	289
	50% OF PRIME POWER	205
TOTAL LUBRICATION SYSTEM CAPACITY (lt)		178
TOTAL COOLANT CAPACITY (lt)		N/A



Alternator Specifications

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 23 protection class
- Self exciter

BRAND	STAMFORD
MODEL	S7L1D-F
FREQUENCY (HZ)	50
POWER (KVA)	1900
DESIGN	4 pole, brushless
CONNECTION TYPE	
VOLTAGE (V)	400

- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid

Phase	3
A.V.R.	
VOLTAGE REGULATION (+/-)	
INSULATION SYSTEM	
PROTECTION	IP23
RATED POWER FACTOR	
WEIGHT COMP. ALTERNATOR (KG)	

Note: Alternator DCCP rating according to class H, Standby rating is according to 163/27 °C



Genset Controllers



DEEPSEA 8610

DEEPSEA 8610 is a diesel gen-set control unit for common paralleling applications supporting both single and multiple gen-sets running in grid-tied or island operations.



Container

- Chassis parts and load-bearing construction are manufactured from 140mm NPU
- The base metal sheet is manufactured from 2/3 diamond-shaped metal sheet
- Sidewall metal sheets are manufactured from 1.5mm ST 37 DKP trapezoidal metal sheet
- The top metal sheet will be manufactured from 1.5mm ST 37 DKP trapezoidal metal sheet
- Air disposing and suction parts are manufactured with the normal shutter in bolt-mounted hot-plug
- Lifting lugs are manufactured to bear the total load of the container (with generator)(8 pcs ISO Locked)
- PPG RAL 9010 paint application is followed for painting
- Internal illumination has 2x1x18 Watt waterproof fixture and 1x1x16 A monophasic plug fitting
- Top wall isolation is 0.8mm galvanised perforated metal sheet coating on 8cm fibro-glass glass wool plate
- The double-winged main door is manufactured with a pipe-type locking mechanism
- Service doors are manufactured with 4 single-winged and internal panic bar mechanisms to be locked outside (These doors are designed mounted inside the container body and doorknobs do not exceed container body)
- Emergency stop button on long edges
- Warning signs are placed to necessary places inside and outside the container



Dimensions
(W x L x H) mm

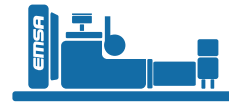
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Weight (Kg)



Fuel tank capacity (lt) 3000



Dimensions
(W x L x H) mm

2520x5780x3249



Weight (Kg)



Fuel tank capacity (lt) 3000



External type

SILENCER OPTIONS

- Standard industrial type
- Critical type
- Hospital type

GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Low oil pressure
- High & low engine speed
- Low radiator water level

OPTIONAL EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Modular type sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-16 gensets

CONTAINER OPTIONS

- Standard container
- Acoustic container

- Over current load
- High & low genset voltage
- Start/stop failure

- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter
- PMG warning system