

CU2500GFS



POWER
YOUR
FUTURE

2500kVA /2000 kW
POWERED by CUMMINS

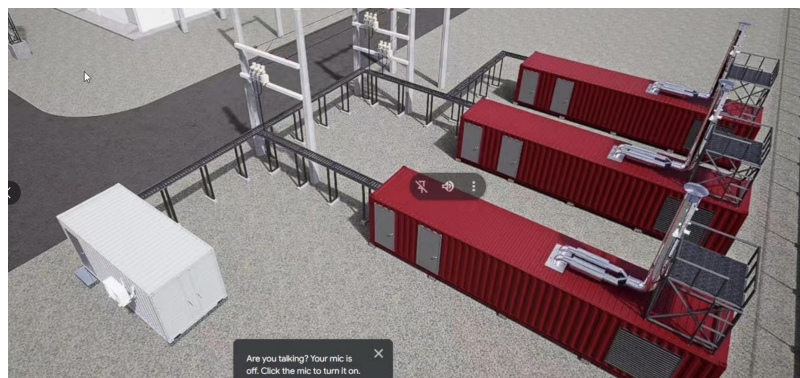
DIESEL GENERATING SET 11KV- 50 Hz

MODEL			CU2500GFS
Power Pf. 0.8	Standby	kVA	2750
		kW	2200
	Prime	kVA	2500
		kW	2000

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046 .

Prime: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528,ISO 3046.

- ✓ High quality, reliable and complete power unit
- ✓ Compact design
- ✓ Easy start and maintenance possibility
- ✓ Every generating set is subject to a comprehensive test program which includes full load testing, checking and provision of all control and safety shut down functions testing
- ✓ Fully engineered with a wide range of options and accessories: Canopy, sound proof canopy and on-road trailer



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

ENGINE

CUMMINS		
Model		QSK60-G23
Engine Power Standby Output	kWm	2157
	HP	2892
Aspiration and Cooling		Turbocharged and Low Temperature Aftercooled
Total Displacement	Litre	60.2
No. of Cylinders and Build		16 V
Engine Speed	rpm	1500
Bore and Stroke	mmxmm	159x190
Compression Ratio		14.5:1
Governor		GCS
Fuel Consumption at 75% load	L/ph	404
Fuel Tank Capacity	Litre	1600
Oil Capacity	Litre	397

- ✓ Heavy duty CUMMINS diesel engine
- ✓ Four stroke, water cooled, turbocharged & aftercooled
- ✓ Direct injection fuel system
- ✓ Electronic Governor system
- ✓ 12/24 V D.C. starter and charge alternator
- ✓ Replaceable fuel filter, oil filter and dry element air filter
- ✓ Cooling radiator and fan
- ✓ Starter battery (with lead acid) including Rack and Cables
- ✓ Flexible fuel connection hoses and manual oil sump drain valve
- ✓ Industrial capacity exhaust silencer and steel bellows
- ✓ Jacket water heater(at automatic models)
- ✓ Operation manuals and circuit diagram documents

ALTERNATOR

Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125 - 163°C Continuous
Exciter Type	Self Excited
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<2%

- ✓ Brushless, single bearing system, flexible disc, 4 poles
- ✓ Insulation class H
- ✓ Standard degree of protection IP21 (*IP22/IP23 is available.)
- ✓ Self-exciting and self-regulating
- ✓ Impregnation with tropicalised epoxy varnish
- ✓ Solid state Automatic Voltage Regulator
- ✓ Stator winding with 2/3 pitch for improved harmonics

CONTROL SYSTEM

- Built-in powerful PLC functions
- MSC redundancy function, the MSC of the DSE86xx controller is connected through a closed loop
- 4 flexibly set analog inputs, which can be set as voltage, current or resistance sensors
- Two RS485 ports can connect EFI engine and BMS system
- Three CAN ports: DSENet, ECU, and MSC
- Supports parallel and load distribution of up to 32 units
- Custom Digital Input/Output (12/8)
- Uncharged busbar detection (that is, switch on first and then start), multiple units quickly start with load
- Multiple remote communication ports (RS232,RS485, Ethernet), all ports can be used at the same time
- active and reactive power distribution
- 250 event records for easy viewing of historical failures
- Hierarchical load rejection and virtual load output
- power monitoring (kWh, kVAr, kVAh, kVArh), reverse power protection, overload protection
- Data record (connected to a U disk) to record the current and historical status information.
- Free DSE Software
- EFI engine supporting national 4 emission standards



OPTIONAL EQUIPMENTS

Diesel Engine

- ✓ Oil heater

Alternator

- ✓ 3/4 Pole Output Circuit Breaker
- ✓ Anti-condensation Heater

Panel

- ✓ Charge ammeter
- ✓ Transfer Switch 3 Pole
- ✓ Transfer Switch 4 Pole
- ✓ Earth Fault ,single set

Accessories

- ✓ Bulk fuel tank
- ✓ Automatic filling system
- ✓ Fuel-water separator filter
- ✓ Low fuel level alarm
- ✓ Residential silencer
- ✓ Enclosure or sound proof canopy
- ✓ Trailer
- ✓ Manual oil drain pump
- ✓ Tool kit for maintenance



CHASSIS

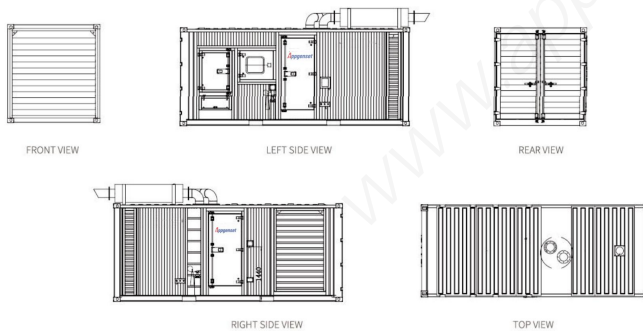
- ✓ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- ✓ Anti-vibration pads are fixed between the engine/ alternator feet and the base frame
- ✓ Base frame design incorporates an integral fuel tank (Up to 750 kVA)
- ✓ The generating set can be lifted or carefully pushed / pulled by the base frame
- ✓ Dial type fuel gauge and drain plug on the fuel tank
- ✓ Forklift pockets within base frame (up to 500kVA)

DIMENSIONS

SOUND ATTENUATED TYPE

DIMENSIONS (LxWxH)	mm	less 14000x3000x3000 (40HC up)
DRY WEIGHT	kg	26500 (40HC up)

CANOPY



- ✓ All canopy parts are designed with modular principles
- ✓ Without welding assembly
- ✓ Doors on each side
- ✓ All metal canopy parts are painted by electrostatic polyester powder paint

- ✓ Exhaust silencer is protected against environment influences
- ✓ Thermally insulated engine exhaust system
- ✓ Emergency stop push button is installed outside of the canopy
- ✓ Easy lifting and moving
- ✓ Easy maintenance and operation