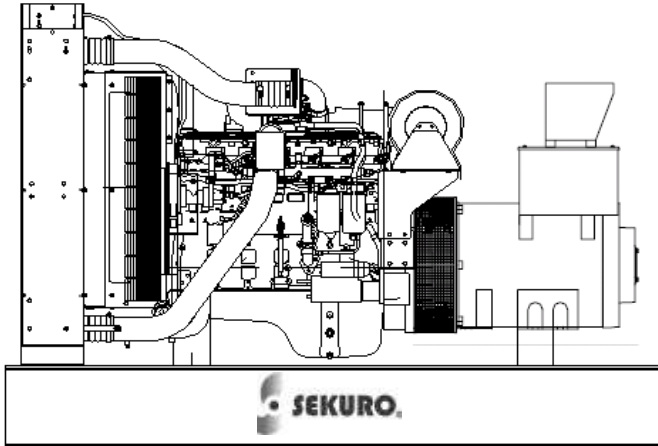




Model: **A250CU**
Diesel Generator Set



FEATURES

- Sekuro provides one-source responsibility for the generator system and its accessories.
- All units and components are factory tested during prototype and manufacturing stages assuring long product life.
- Generator set accepts one-step 100% of full load per NFPA 110.
- A **one-year** limited **warranty** covers all systems and components. Extended warranties are available.
- Rugged 4 cycle heavy-duty diesel engine, with swirl intake ports for a low fuel consumption and excellent transient response.

Generator features:

- Unique Volts per Hertz compensated electronic AVR excitation system delivers reliable voltage response for in rush loads.
- Brushless, rotating-field generator has low reactance, 2/3 pitch, class H insulation, minimizes voltage distortion when powering non-linear loads.

More features:

- Controllers are available to meet your most demanding applications.
- In the event of low oil pressure or high coolant temperature the self-protecting system will automatically stop the engine.

GENERATOR SET RATINGS

Model	Volt Code	Voltage	Winding Connection	Phase	Power Factor	Hz	Amps Standby	Standby kW / kVA	Prime kW / kVA
A250CU	61	480 / 277	12 - HI WYE	3	0.8	60	376	250 (312)	225 (280)
A250CU	63	440 / 254	12 - HI WYE	3	0.8	60	411	250 (312)	225 (280)
A250CU	64	240 / 139	12 - HI DELTA	3	0.8	60	753	250 (312)	225 (280)
A250CU	65	220 / 127	12 - LOW WYE	3	0.8	60	821	250 (312)	225 (280)
A250CU	66	208 / 120	12 - LOW WYE	3	0.8	60	868	250 (312)	225 (280)
A250CU	67	240 / 120	12 - 2 DELTA	1	1.0	60	1042	250 (250)	225 (225)
A250CU	51	415 / 240	12 - HI WYE	3	0.8	50	382	220 (275)	198 (247)
A250CU	53	380 / 220	12 - HI WYE	3	0.8	50	418	220 (275)	198 (247)
A250CU	55	220 / 127	12 - LOW WYE	3	0.8	50	723	220 (275)	198 (247)
A250CU	57	220 / 110	12 - 2 DELTA	1	1.0	50	1000	220 (220)	198 (198)

Stand-By ratings are continuous electrical service during the interruption of normal power. No overload capacity is specified at these ratings. Prime ratings available with variable loads are continuous, 10% overload capacity for one hour in twelve hours periods.

Both ratings per BS 5514, DIN 6271, ISO-3046

Many industrial, commercial and residential voltages are available

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ALTERNATOR SPECIFICATIONS

Type	Four pole, revolving field
Rotor Insulation	Class H
Temperature Rise	150°C Standby
Material	Epoxy resin
Line-To-Line Harmonic Factor (Max)	5%
Telephone Interference Factor (Tif)	1%
Voltage Regulator	Solid State
Cooling	Self-ventilated and drip proof
Bearing	1 each, pre-lubed
Coupling	Direct, Flexible Disc
Load Capacity (Standby)	100%
Overload Capacity (Prime)	110%
Voltage Regulation	
No Load To Full Load	±1 %
One Step Load Acceptance	
Per NFPA 110	100%

- ❑ Four pole, revolving field, direct coupled to engine flywheel, provides excellent alignment.
- ❑ Insulation is of class H, ready to be used on harsh environments where sea spray, sand and chemical corrosion are existing factors.
- ❑ Voltage regulator provides Volts/Hertz compensation to improve the motor starting capabilities, therefore support the engine handling transient loads.
- ❑ Dynamically balanced rotor, with damper winding, help dissipate transient voltage interference during load variations.
- ❑ The windings have a 2/3 pitch in order to reduce the harmonic content of voltage.
- ❑ Robust mechanical structure permits easy access to connections.

ENGINE SPECIFICATIONS

Manufacturer	CUMMINS
Model	QSL9-G2 NR3
Bore	4.49 in (114 mm)
Stroke	5.69 in (145 mm)
Number Of Cylinders	6-Cylinder
Piston Displacement	543 in ³ (8.8 L)
Compression Ratio	17.8:1
Combustion System	Bosch HPCR
Engine Type	4-Cycle; In-line
Aspiration	Turbocharged and Charge air Cooled
Engine Crankcase Vent System	Closed
Cylinder	Borable
Crankshaft Material	Forged Steel
Governor Type	Mechanical
Frequency Regulation	
No Load To Full Load	5 %
Air Cleaner	Dry Element

- ❑ Robust industrial grade CUMMINS diesel engine, for reliable endurance.
- ❑ Direct fuel injection system and swirl intake ports combine for a low fuel consumption and excellent transient response.
- ❑ Cylinder Head provides superior airflow through specially designed intake manifold ports, large valves and seats resulting in superior engine performance in torque reserve, fuel consumption and emissions.
- ❑ Extra strong engine block with provisions for overhaul.
- ❑ Dynamically Balanced Crankshaft, with induction-hardened journal surfaces significantly increases wear life.
- ❑ Heavy-duty Cummins engines are known for their fuel efficiency, responsive transient performance and rugged reliability

STANDARD EQUIPMENT

ENGINE

- Air Cleaner
- Fuel Pump
- Fuel Filter
- Oil Pump
- Full Flow Oil Filter
- Jacket Water Pump
- Thermostat and Housing
- Exhaust Manifold Dry
- Oil Cooler
- Blower Fan & Fan Drive
- Radiator - Unit Mounted
- Electric Starting Motor 12v
- Housing & Flywheel
- Charging Alternator - 12v

- Battery Kit & Battery Rack

GENERATOR

- Synchronous, Brush-less
- Four Pole
- Single Bearing
- Direct Coupled With Flex
- Class H Insulation
- Drip-Proof Construction

CONTROL PANEL

- Digital controller
- Stop-Manual-Auto Pushbuttons
- Standard Engine Control Monitoring

- Automatic Shutdowns
 - * High Water Temperature
 - * Low Oil Pressure
 - *Protective 12vdc Circuit Breaker
- Display Lights For:
 - * Water Temperature
 - * Oil Pressure
 - * Overcrank
 - * Underspeed
 - * Overspeed
 - * Battery Charging

GENERAL

- Industrial Muffler

- Rain Cap
- In Frame Lifting Points
- Acrylic Enamel Paint

INSTALLATION AND APPLICATION DATA

	Item	Units	Type of Operation and Application			
			60 Hz		50 Hz	
			Prime	Standby	Prime	Standby
Engine	Rated Speed	rpm	1800		1500	
	Gross Engine Output	bhp (kWm)	324 (241)	375 (280)	276 (206)	320 (239)
	BMEP	psi (kPa)	262 (1808)	303 (2092)	268 (1848)	311 (2143)
	Mean Piston Speed	Ft/min (m/s)	1707 (8.7)		1422 (7.2)	
Cooling System	Ambient Air Temperature	°F (°C)	122 (50)			
	Engine Heat Reject to Coolant	BTU/min (kW)	6155 (110)	6560 (120)	5320 (95)	5755 (105)
	Coolant Capacity	Gal (L)	2.9 (11)			
	Standard Thermostat Range	°F (°C)	180-199 (82-93)			
	Minimum Pressure Cap	Psi (kpa)	15 (103)			
	Maximum coolant friction	Psi (kpa)	5 (35)		4 (28)	
Fuel System	Total drain flow	gal/h (L/h)	19 (72)			
	Fuel Type		Diesel #2			
	Fuel Consumption @ 25% Power	gal/hr (L/hr)	4.19	4.85	3.51	4.07
	Fuel Consumption @ 50% Power	gal/hr (L/hr)	8.37	9.69	7.02	8.14
	Fuel Consumption @ 75% Power	gal/hr (L/hr)	12.56	14.54	10.52	12.20
	Fuel Consumption @ 100% Power	gal/hr (L/hr)	16.75	19.38	14.03	16.27
Air Requirement	Combustion Air Flow	ft ³ /min (L/s)	770 (365)	775 (370)	650 (310)	660 (310)
	Air Intake Restriction clean filter	In.H ₂ O (kPa)	15 (3.7)			
	Air Intake Restriction dirty filter	In.H ₂ O (kPa)	25 (6.2)			
	Exhaust Temperature	°F (°C)	1000 (540)	1065 (575)	965 (520)	1025 (550)
	Maximun Allowable Back Pressure	In.H ₂ O (kPa)	40.78 (10.15)			
Lubrication System	Maximum oil temperature	°F (°C)	250 (121)			
	Oil Pan Capacity	gal (L)	6.5-5.3 (23.8-20.1)			
	Total Engine Oil Cap. w/filter	gal (L)	7 (26.5)			
	Oil Filter Type		Cartridge			
	Lube oil specifications grade		SAE 15W - 40			
Engine Electricals	Battery Charging Alternator	Volts, Ground	12V, negative			
	Battery Charging Alternator	Rated amps	100			
	Recommended Battery Cold Crank	CCA amps	1500 / 0 °F TO 32 (- 18 °C TO 0°C)			
	Starter Motor	Volts, Ground	12V, negative			
Operation	Temperature and Altditude Losses	%	Contact factory for values			

OPTIONAL EQUIPMENT

Cooling System

- Remote Radiator
- Jacket Water Heater
- Crankcase Oil Heater

Fuel System

- Fuel/Water Separator
- Auxiliary Fuel Pump
- Sub-Base Fuel Tank
 - Double Wall
 - UL Listed

Start System

- Battery Nicad
- Battery Warmer Plate
- Battery Charger
 - Automatic Float Equalizing

- Trickle

Switchgear

- Main Line Circuit Breaker
 - Shunt trip
 - Auxiliary switch
- Automatic Transfer Switch
- Paralleling
- Protective Relays

Generator

- Permanent Magnet Excitation
- Space Heaters
- Temperature Rise Detectors

Control Panel

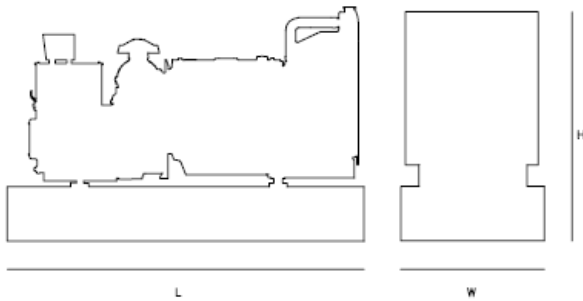
- NFPA 110 Ready
- Remote Annunciation Panel

- Audible Alarm

General

- Aluminum enclosure
- Sound attenuation kit
- Spring vibration isolators
- Interior lights AC or DC
- Trailer
- Export Packaging
- Special Testing
- Warranties
 - ____ Year

For Other Options Consult



DIMENSIONS AND WEIGHT

	Units	Open Unit	Enclosed Unit	Sound Att. Unit
Length	In. (mm)	116 (2946)	116 (2946)	151 (3835)
Width	In. (mm)	48 (1219)	48 (1219)	48 (1219)
Height	In. (mm)	62 (1575)	72 (1829)	72 (1829)
Weight	Lbs (kg)	4250 (1927)	4500 (2041)	4550 (2063)

General configuration for reference only, do not use these dimensions for installation purposes. Contact your local dealer for certified drawings.