12301 SW 128 Court, Unit 104, Miami, Florida 33186 Phone: 305-259.4537 / 305-259.4538 / Fax: 305-259.4539 / U.S. Toll Free: 877-813.0251 Email: sales@cargoequipmentsolutions.com

Diesel Generating Set C220

MODEL	C220
Standby Power (60Hz)	192KW / 240KVA
Prime Power (60Hz)	175KW / 219KVA

Standard Features

General Features:

- Engine (DCEC Cummins 6CTAA8.3-G2)
- Radiator 50C max, fans are driven by
- belt, with safety guard
- 24V charge alternator
- Alternator: single bearing alternator IP23, insulation class H/H
- Absorber
- Dry type air filter, fuel filter, oil filter
- Main line circuit breaker
- Standard control panel
- Two12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler.
- User manual.



PHOTO FOR REFERENCE ONLY

Generator Ratings

Voltage	ΗZ	Phase	P.F (COS¢)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
480/277	60	3	0.8	288	192/240	175/219
460/266	60	3	0.8	301	192/240	175/219
440/254	60	3	0.8	315	192/240	175/219
416/240	60	3	0.8	333	192/240	175/219

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528); A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Sales Promises

Cargo Equipment Solutions, Inc provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty on equipments are: One (01) year or 1000 Hours of standard working condition, what ever comes first. Service and parts are available from Cargo Equipment Solutions, Inc.

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Manufacturer / Model:	DCEC Cummins 6CTAA8.3-G2, 4-cycle				
Air Intake System:	Turbo, Air / Air Cooling				
Fuel System:	PB/W type fuel pump				
Cylinder Arrangement:	6 in line				
Displacement:	8.3L				
Bore and Stroke:	114*135 (mm)				
Compression Ratio:	16.0 : 1				
Rated RPM:	1800rpm				
Max. Standby Power at Rated RPM:	220KW / 299Hp				
Governor Type:	Electronic				
Governor Type.	Liectronic				
Exhaust Sys	tem				
Exhaust Gas Flow:	31.4 m3/min.				
Exhaust Temperature:	545°C				
Max Back Pressure:	10.1 kPa				
Air Intake Sys	tem				
Max Intake Restriction:	6.35 kPa				
Burning Capacity:	12.1m3/min				
Intake Flow:	330m3/min				
intake How.	330113/1111				
Fuel Syste	m				
100%(Prime Power) Load:	42.21 Lts / Hr				
75%(Prime Power) Load:	42.41 Lts / Hr				
50%(Prime Power) Load:	43.44 Lts / Hr				
30 %(I fille I ower) Load.					
Oil System	n				
Total Oil Capacity:	24L				
Oil Consumption:	≤4g/Kwh				
Engine Oil Tank Capacity:	18.9L				
Oil Pressure at Rated RPM:	276 - 414kPa				
Cooling System					
Total Coolant Capacity:	40 L				
Thermostat:	83-95℃				
Max Water Temperature:	104°C				

Specifications may change without notice.

ENGINE DATA

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ALTERNATOR SPECIFICATION

General Data

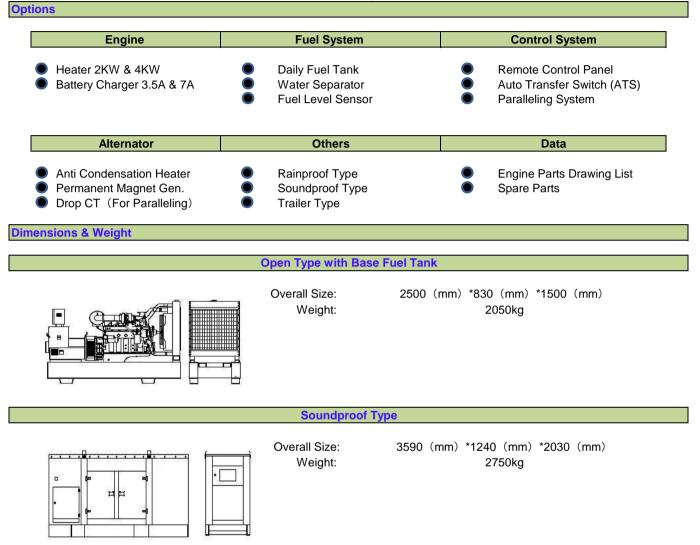
Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

Alternator Data				
Number of Phase:	3			
Connecting Type:	3 Phase and 4 Wires, ¡Y¡ type connecting			
Number of Bearing:	1			
Power Factor:	0.8			
Protection Grade:	IP23			
Altitude:	≤1000m			
Exciter Type:	Brushless, self-exciting			
Insulation Class, Temperature Rise:	H/H			
Telephone Influence Factor (TIF):	<50			
THF:	<2%			
Voltage Regulation, Steady State:	≤±1%			
Alternator Capacity:	218.5 KVA			
Alternator Efficiencies:	92.40%			
Air Cooling Flow:	0.617m3/s			
GENERATING SET DATA				
Voltage Regulation:	≥±5%			
Voltage Regulation, Stead State:	≤±1%			
Sudden Voltage Warp (100% Sudden Reduce):	≤+25%			
Sudden Voltage Warp (Sudden Increase):	≤-20%			
Voltage Stable Time (100% Sudden Reduce):	≤6S			
Voltage Stable Time (Sudden Increase):	≤6S			
Frequency Regulation, Stead State:	≤5%			
Frequency Waving:	≤0.5%			
Sudden Frequency Warp (100% Sudden Reduce):	≤+12%			
Sudden Frequency Warp (Sudden Increase):	≤-10%			
Frequency Recovery Time (100% Sudden Reduce):	≤5S			
Frequency Recovery Time (Sudden Increase):	≤5S			

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Cargo Equipment Solutions, Inc. Standard Control Panel is the basic configuration for normal operation and usage, it is a kind of intelligent controller with LED displaying the operating mode of the controller and the running state of the generator sets. It can configure the control procedure and protection parameter of the generator, and completely satisfied the automatic controlling requirement of different generator sets for the user or factory.

Auto Module Control Panel



Auto Module Control Panel is the configuration for nobody on duty controlling generators. This kind of panel adopts auto module control system, with large LCD display to show the menu. Features: MRS10-can receive remote output signal from ATS and realize auto start and stop of

generators. MRS16-can realize all functions of MRS10, add RS232 interface which can communicate with PC to realize remote operation.

AMF25-Auto Mains Failure controller, can realize all functions of MRS16, furthermore can detect ATS and control directly.

Auto Parallel Control Panel



Automatic Parallel Control Panel, This new automatic parallel system adopts intelligent modules, inserted and folded installed, no need the peripheral relay and logic circuit. The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for singly and parallel. It is only need to parallel generator with such panel when the capability needs to be enlarged in the future.