

Rental Power 230 kW



> [Specification sheet](#)

Our energy working for you.™



Description

This Cummins Power Generation rental package is a fully integrated mobile power generation system, providing optimum performance, reliability and versatility for standby and prime power applications.

Features

Cummins diesel engines

- Rugged 4-cycle industrial diesel engine with excellent transient performance
- Lightweight, compact and excellent fuel economy
- Spin on fuel filter w/pre-filter water separator with drain
- Equipped with heavy duty, 2-stage air cleaners with dust ejector and bypass-type oil filters

Engine controls

- Oil Pressure & Water Temp Gauge
- Fuel Level Gauge & Battery Voltage Gauge
- Hour meter

Stamford alternators

- 12-lead reconnectable alternators fitted with voltage selection switch
- Permanent magnet excitation for improved performance in non-linear load applications

Rental package enclosure

- Heavy duty trailer package with pintle hitch and electric or hydraulic brakes
- Sound attenuated, white powder coated lockable enclosure
- 20 hour fuel tank with gauge
- Roof mounted, single point lift
- Cooling system rated for 104° F ambient
- Complete engine fluid containment reservoir
- DOT approved trailer with light package, replaceable fenders and jack stand
- Low coolant shutdown feature
- Voltage selector switch
- Shore power (120 VAC) - No breakers in shore power connection. Shore power loads are coolant heater (option) and battery charger (option). Connection: 15A/120V flanged male receptacle (5-20 flanged inlet).

Model	Standby rating		Prime rating		Engine model	Alternator model
	60 Hz kW (kVA)	50 Hz kW (kVA)	60 Hz kW (kVA)	50 Hz kW (kVA)		
C230D6RT	230 (287)		210 (262)		QSL9-G2	HCI434C

Engine specifications

Engine model	QSL9-G2
Alternator data sheet	HCI434C
Engine data sheet	DS-92067
Tier rating	Tier III
Design	4 cycle, In-Line, turbocharged and after-cooled
Bore	114 mm (4.49 in.)
Stroke	145.0 mm (5.69 in.)
Displacement	8.8 liters (543 in ³)
Cylinder block	Cast iron, In-Line 6 cylinder
Battery capacity	2 x 750 cca
Battery charging alternator	100 amps
Starting voltage	12 volt, negative ground
Fuel system	Bosch HPCR: No.2 diesel fuel
Fuel filter	Spin on fuel filter with water separator
Air cleaner type	2-stage, dry replaceable element with dust ejector
Lube oil filter type(s)	Single spin-on, full flow
Standard cooling system	104° F (40° C) ambient radiator

Alternator specifications

Design	Brushless, 4 pole, drip proof revolving field
Stator	2/3 pitch
Rotor	Singe bearing, flexible disc
Insulation system	Class F per NEMA MG1-1.65
Standard temperature rise	105/40° C prime
Exciter type	PMG (permanent magnet generator)
Phase rotation	A (U), B (V), C (W)
Alternator cooling	Direct drive centrifugal blower fan
AC waveform total harmonic distortion	< 1.5% no load, < 5% non-distorting balance linear load
Telephone influence factor (TIF)	< 50 per NEMA MG1-22.43
Telephone harmonic factor (THF)	< 2%

Power capability specifications

	Standby rating			
	240 V, 1 phase Amps	208 V, 3 phase Amps	480 V, 3 phase Amps	600 V, 3 phase Amps
C230D6RT	640	695	346	TBD

Electrical power panel specifications

Model voltage	120 V duplex receptacles	240 V twist	Load lug connection (stud diameter)	Load lug circuit breakers
120/480 Volt	2 - 20 Amp	3 - 50 Amp	1/2 inch	900 Amp
480 V/600 V switchable	0	0	1/2 inch	N/A

Site derating factors

Standby application: The engine may be operated at 1800 rpm up to 1,500 ft (457 m) and 104° F (40° C) without power deration. For sustained operation above these conditions, derate by 6% per 1,000 ft (300 m), and 15% per 18° F (10° C).

Our energy working for you.™

www.cumminspower.com

©2008 | Cummins Power Generation | Specifications Subject to Change Without Notice
 Cummins and PowerCommand are registered trademarks of Cummins Inc. AmpSentry is a trademark of Cummins Inc.
 S-1543c (1/08)



Control system

- Cascade control system
- Rated Nema 4 and IP65 (encapsulated to protect against dirt, water & dust)
- Common alarm contact
- Cycle cranking control
- Field circuit breaker
- Lamp test on power-up
- Remote starting, 12 V, 2 wire
- Run-off-auto switch and reset switch
- 5% voltage adjust rheostat
- AC ammeter and AC voltmeter
- Hertz meter
- High coolant temperature shutdown (red light)
- Low oil pressure shutdown (red light)
- Overcrank shutdown (red light)
- Overspeed shutdown (red light)
- Run indicator (green light)
- Two customer selected faults (red light)

- Voltmeter/ammeter phase selector
- Engine gauges
- Coolant temperature gauge
- DC voltmeter
- Oil pressure gauge
- Run time meter
- LED status
- Engine control unit status
- Remote start/crank reset
- Underspeed and charge fail
- ECU status



Easy to use Cascade controller

Standard generator electrical features

- Multiple voltage selector switch (480/277 VAC/3 phase or 240/139 VAC/3 phase or 240/120 VAC/1 phase)
- Potentiometer adjustable to 208/120 VAC/3 phase
- Single phase convenience receptacles
- Voltage adjustment potentiometer
- Distribution panel with L1, L2, L3 neutral & ground
- Main line shunt trip type circuit breaker
- Auto start-stop with remote contacts
- Over current sensing
- 3 available auxiliary connections

Rental package options

- Heavy duty jack stand – center mounted
- Immersion style coolant heater
- Tank style coolant heater
- Low coolant shutdown system (standard on 230 kW)
- Phase selector switch on control panel
- Battery disconnect switch
- Cam lock distribution panel
- 110 Volt, 3.5 Amp Sens battery charger
- Base mount generator – no trailer
- 600 Volt/480 Volt switchable

Our energy working for you.™

www.cumminspower.com

©2008 | Cummins Power Generation | Specifications Subject to Change Without Notice
Cummins and PowerCommand are registered trademarks of Cummins Inc. AmpSentry is a trademark of Cummins Inc.
S-1543c (1/08)



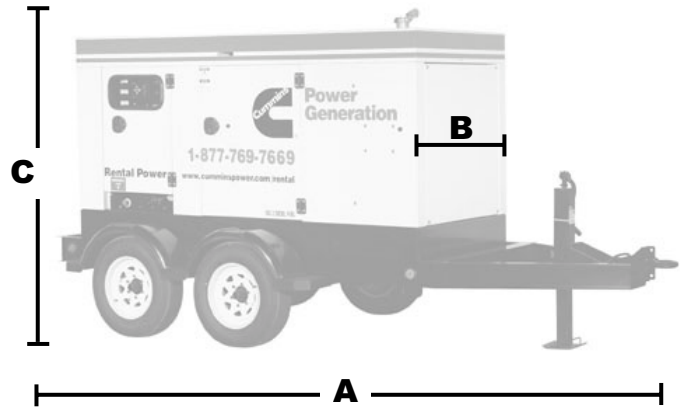
Ratings definitions

Standby:

Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. (Equivalent to Fuel Stop Power in accordance with ISO3046, AS2789, DIN6271 and BS5514). Nominally rated.

Prime (unlimited running time):

Applicable for supplying power in lieu of commercially purchased power. Prime power is the maximum power available at a variable load for an unlimited number of hours. A 10% overload capability is available for limited time. (Equivalent to Prime Power in accordance with ISO8528 and Overload Power in accordance with ISO3046, AS2789, DIN6271, and BS5514).



Dimensions

Model	Dim "A" mm (in.)	Dim "B" mm (in.)	Dim "C" mm (in.)	Weight w/o fuel kg (lbs)	Weight with fuel kg (lbs)	Fuel capacity liters (gal)
C230D6RT	3683 (145)	1270 (50)	2337 (92)	3704 (8158)	4711 (10377)	1137 (300)
With trailer	5182 (204)	1981 (78)	2819 (111)	4557 (10038)	5565 (12257)	1137 (300)

Specifications

Model	KW rating		Sound level dB(A) @ 7 m	Tier rating	Hours of operation (75% load)	
	Standby	Prime			Standby	Prime
C230D6RT	230	210	77	Tier III	20	21

Trailer information

Model	Tire size	Tire type	Load range	Number of tires per trailer	Lug pattern	Wheel brand
C230D6RT	ST235/85-R16E	Radial	E	4	8 lug on 6.5" bolt	Load Star karrier

Cummins Power Generation

1400 73rd Avenue N.E.
Minneapolis, MN 55432 USA
Telephone: 763 574 5000
USA Toll-free: 877 769 7669
Fax: 763 574 5298

Our energy working for you.™

www.cumminspower.com

©2008 | Cummins Power Generation | Specifications Subject to Change Without Notice
Cummins and PowerCommand are registered trademarks of Cummins Inc. AmpSentry is a trademark of Cummins Inc.
S-1543c (1/08)

