

Rental Power 300 kW



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

- U.S. EPA Tier III compliant
- 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

Control features

- The most advanced, reliable and capable generator set control system on the market today
- Controls provide precise frequency and voltage regulation, alarm and status message display in one easy-to-operate customer interface
- Remote monitoring and operation ready
- Auto shutdown at fault detection

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 (100% prime) with gauge
- Roof mounted, single point lift
- Cooling system rated for 122° F (50° C) 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	Voltages (V)	Standby Rating		Prime Rating		Engine model	Alternator model
		60 Hz kW (kVA)	50 Hz kW (kVA)	60 Hz kW (kVA)	50 Hz kW (kVA)		
C300D6R	208/480	300 (375)		270 (337)		QSM11-G4	HCI434E
	480/600 switchable	300 (375)		270 (337)		QSM11-G4	HCI434F

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Engine specifications

Engine model	QSM11-G4
Alternator data sheet	HCI434E (208/480), HCI434F (480/600 switchable)
Engine data sheet	FR-20138
Tier rating	TPEM (Tier III)
Design	4 cycle, In-Line, turbocharged and after-cooled
Bore	125 mm (4.92 in)
Stroke	147 mm (5.79 in)
Displacement	10.8 liters (661 in ³)
Cylinder block	Cast iron, in-line 6 cylinder
Battery capacity	1000 CCA GR31
Battery charging alternator	70 amps
Starting voltage	24 volt, negative ground
Fuel system	Cummins Celect: 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)	Full flow bypass combo filter
Standard cooling system	122° F (50° 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	95/50 °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 (Assume power factor = 0.80 for 3 phase amps)

	Standby rating			
	240 V, 1 phase Amps	208 V, 3 phase Amps	480 V, 3 phase Amps	600 V, 3 phase Amps
C300D6R	903	1040	451	361

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	1200 Amp
480/600 Volt switchable	0	0	1/2 inch	600 Amp

Site derating factors

Standby application: The engine may be operated at 1800 rpm up to 305 m (1000 ft) and 50° C (122° F) without power deration. For sustained operation above these conditions, derate by 4% per 300 m (1,000 ft), and 11% per 10° C (18° F).

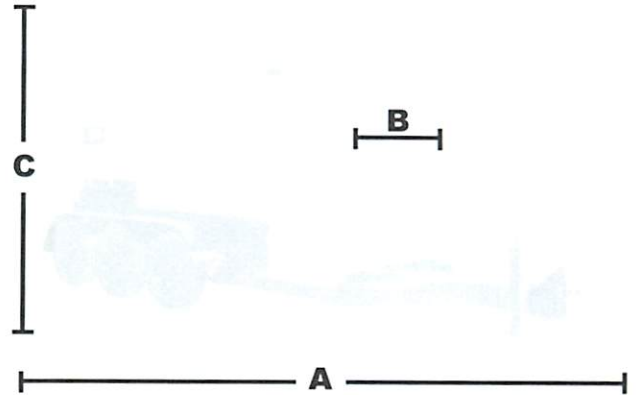
Ratings definitions

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)
C300D6R	4191 (165)	1575 (62)	2439 (96)	4780 (10450)	6068 (13380)	1514 (400)
With trailer	6223 (245)	2489 (98)	2921 (115)	6119 (13493)	7407 (16333)	1514 (400)

Fuel consumption

60 Hz Ratings, kW (kVA)	Load	Standby 300 (375)				Prime 270 (337)			
		¼	½	¾	Full	¼	½	¾	Full
	US Gal/hr	7.2	11.8	17	23	6.5	10.8	15	19.8
	L/hr	27.3	44.7	64.4	87.1	24.6	40.9	56.8	75

Specifications

Model	KW rating		Sound level at full load dB(A) @ 7 m	Tier rating	Hours of operation (75% load)	
	Standby	Prime			Standby	Prime
C300D6R	300	270	72	Tier III	23	26

Trailer information

Model	Tire size	Tire type	Load range	Number of tires per trailer	Lug pattern
C300D6R	ST235/85R16	Radial	E	6	8 x 6.5

Certifications

These generator sets are certified to following standards:



CAN/CSA STD C22.2 NO. 100-04
CAN/CSA STD C22.2 NO. 14-05

North America
1400 73rd Avenue N.E.
Minneapolis, MN 55432
USA

Phone 763 574 5000
Fax 763 574 5298

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