

Rental Power 150 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
- 2-stage spin on fuel filter w/pre-filter water separator with drain
- Equipped with heavy duty, 2-stage air cleaners with dust ejector

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 and 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
- 25 hour fuel tank (100% prime) with gauge
- Roof mounted, single point lift
- Cooling system rated for 122° F (50° C) at 100% SB ambient
- Complete engine fluid containment reservoir
- DOT approved trailer with light package, replaceable fenders and jack stand
- 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)		
C150D6R	208/480	150 (188)		135 (169)		QSB7-G3	UCI274F
	480/600 switchable	150 (188)		135 (169)		QSB7-G3	UCI274H

Engine specifications

Engine model	QSB7-G3
Alternator data sheet	UCI274F (208/480), UCI274H (480/600 switchable)
Engine data sheet	DS-91910
Tier rating	TPEM (Tier III)
Design	4 cycle, In-Line, turbocharged and after-cooled
Bore	107 mm (4.21 in.)
Stroke	124.0 mm (4.88 in.)
Displacement	6.69 liters (408 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	Direct injection HPCR system
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	122° F (50° C) ambient radiator

Alternator specifications

Design	Brushless, 4 pole, drip proof revolving field
Stator	Double layer concentric, 2/3 winding pitch
Rotor	Single bearing, flexible disc
Insulation system	Class H per NEMA MG1-1.65 (208/480 VAC) Class F per NEMA MG1-1.65 (480/600 VAC switchable)
Standard temperature rise	115/50° C prime (208/480 VAC) 95/50° C prime (480/600 VAC switchable)
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
C150D6R	431	520*	226	180

* 240V, 3 phase = 451A

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 GFCI	3 - 50 Amp	1/2 inch	600 Amp
480/600 Volt switchable	0	0	1/2 inch	300 Amp

Site derating factors

Standby application: The engine may be operated at 1800 rpm up to 3,600 ft (1097 m) and 113° F (45° C) without power deration. For sustained operation above these conditions, derate by 4% per 1,000 ft (300 m), and 8% per 18° F (10° C).

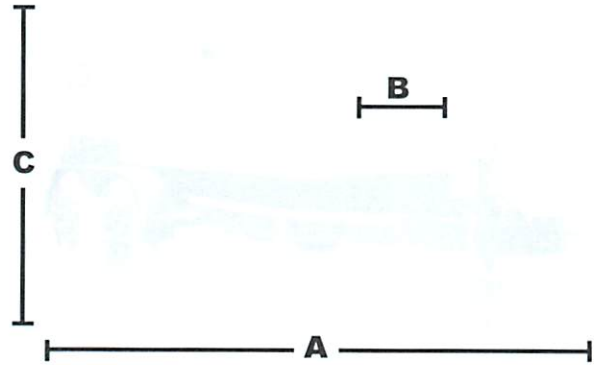
Ratings definitions

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)
C150D6R	3700 (146)	1450 (57)	1700 (67)	2523 (5563)	3344 (7374)	965 (255)
With trailer	5740 (226)	2140 (84)	2309 (91)	3332 (7346)	4153 (9157)	965 (255)

Fuel consumption

60 Hz Ratings, kW (kVA)	Load	Standby 150 (187)				Prime 135 (168)			
		¼	½	¾	Full	¼	½	¾	Full
	US Gal/hr	3.6	6.6	9.1	11.8	3.1	5.9	8	10.1
	L/hr	13.6	25	34.4	45	11.7	22.3	30.3	38.2

Specifications

Model	KW rating		Sound level at full load dB(A) @ 7 m	Tier rating	Hours of operation (75% load)	
	Standby	Prime			Standby	Prime
C150D6R	150	135	69	Tier III	28	32

Trailer information

Model	Tire size	Tire type	Load range	Number of tires per trailer	Lug pattern
C150D6R	235/85-R16	Radial	2755 lbs - each	4	8 hole

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

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