

Generator Set Data Sheet	Model:	C2000 D6
	Frequency:	60
	Fuel Type:	Diesel
	Emissions Level:	EPA Nonroad

Exhaust Emission Data Sheet:	EDS-169
EPA Tier 1 Exhaust Emission Compliance Sheet:	EPA1CS-1006
Measured Sound Performance Data Sheet:	MSP-174
Measured Cooling Performance Data Sheet:	MCP-109
Prototype Test Summary Data Sheet:	PTS-155
Standard Set-Mounted Radiator Cooling Outline:	500-3947
Optional Set-Mounted Radiator Cooling Outline:	500-3948
Optional Heat Exchanger Cooling Outline:	500-3946
Optional Remote Radiator Cooling Outline:	500-3945

		—— Standby			Prime				Continuous
Fuel Consumption		<b>kW</b> (	kVA)			<b>kW</b> (	kVA)		kW (kVA)
Ratings	s —	2000	(2500)	$\checkmark$		1825	(2281)		<b>1600</b> (2000)
Load	l 1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	Full
US gpl	n 43	71	103	135	41	67	94	122	108
L/h	r 163	272	385	510	154	252	356	462	408

	Standby	Prime	Continuous		
Engine	Rating	Rating	Rating		
Engine Manufacturer	Cummins				
Engine Model	QSK60-G6				
Configuration		st Iron, 60°V 16 cyl			
Aspiration		Turbocharged and Low Temperature After			
Gross Engine Power Output, kWm (bhp)	2179 (2922)	1975 (2647)	1739 (2332)		
BMEP at Set Rated Load, kPa (psi)	2420 (351)	2185 (317)	1924 (279)		
Bore, mm (in.)	159 (6.25)				
Stroke, mm (in.)		190 (7.48)			
Rated Speed, rpm		1800			
Piston Speed, m/s (ft/min)		11.4 (2243)			
Compression Ratio		14.5:1			
Lube Oil Capacity, L (qt)	280 (296)	397 (420)	397 (420)		
Overspeed Limit, rpm	2100 ±50				
Regenerative Power, kW	207				
Fuel Flow					
Maximum Fuel Flow, L/hr (US gph)	1893 (500)				
Maximum Fuel Inlet Restriction, kPa (in. Hg)		8.4 (2.5)			
Maximum Fuel Inlet Temperature, °C (°F)		71 (160)			
Air					
Combustion Air, m³/min (scfm)	173 (6150)	160 (5690)	148 (5275)		
Maximum Air Cleaner Restriction, kPa (in. H <sub>2</sub> O)	6.2 (25)				
Alternator Cooling Air, m <sup>3</sup> /min (cfm)	289 (10200)				
Exhaust					
Exhaust Gas Flow at Set Rated Load, m³/min (cfm)	439 (15500)	398 (14070)	348 (12305)		
Exhaust Gas Temperature, °C (°F)	477 (890)	460 (860)	446 (835)		
Maximum Exhaust Back Pressure, kPa (in. H <sub>2</sub> O)		6.7 (27)			

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	Standby	Prime	Continuous		
Standard Set-Mounted Radiator Cooling	Rating	Rating	Rating		
Ambient Design, <sup>°</sup> C ( <sup>°</sup> F)		40 (104)			
Fan Load, KW <sub>m</sub> (HP)	50 (67)				
Coolant Capacity (with Radiator), L (US Gal.)		454 (120)			
Cooling System Air Flow, m <sup>3</sup> /min (scfm)		1996 (70500)			
Total Heat Rejection, MJ/min (BTU/min)	94.1 (89164)	83.2 (78882)	73.9 (70030)		
Maximum Cooling Air Flow Static Restriction, kPa (in. H <sub>2</sub> O)		0.12 (0.5)			
Maximum Fuel Return Line Restriction, kPa (in. Hg)		23.7 (7)			
Optional Set-Mounted Radiator Cooling					
Ambient Design, <sup>°</sup> C ( <sup>°</sup> F)		50 (122)			
Fan Load, kWm (HP)		57.4 (77)			
Coolant Capacity (with radiator), L (US Gal.)		492 (130)			
Cooling System Air Flow, m <sup>3</sup> /min (scfm)		2294 (81000)			
Total Heat Rejection, MJ/min (BTU/min)	94.1 (89164	83.2 (78882)	73.9 (70030)		
Maximum Cooling Air Flow Static Restriction, kPa (in. H <sub>2</sub> O)		0.12 (0.5)	•		
Maximum Fuel Return Line Restriction, kPa (in. Hg)		23.7 (7)			
Optional Heat Exchanger Cooling					
Set Coolant Capacity, L (US Gal.)		454 (120)			
Heat Rejected, Jacket Water Circuit, MJ/min (BTU/min)	37.1 (35150)	33.1 (31410)	28.7 (27260)		
Heat Rejected, After-cooler Circuit, MJ/min (BTU/min)	37.3 (35380)	32.3 (30600)	28.1 (26620)		
Heat Rejected, Fuel Circuit, MJ/min (BTU/min)	07.0 (00000)	2.1 (2000)	20.1 (20020)		
Total Heat Radiated to Room, MJ/min (BTU/min)	17.5 (16634)	15.7 (14872)	13.9 (13150)		
Maximum Raw Water Pressure, Jacket Water Circuit, kPa (psi)	11.0 (10001)	1034 (150)	10.0 (10100)		
Maximum Raw Water Pressure, Aftercooler Circuit, kPa (psi)		1034 (150)			
Maximum Raw Water Pressure, Fuel Circuit, kPa (psi)		1034 (150)			
Maximum Raw Water Flow, Jacket Water Circuit, L/min (US		( )			
Gal/min)	1363 (360)				
Maximum Raw Water Flow, Aftercooler Circuit, L/min (US Gal/min)		1363 (360)			
Maximum Raw Water Flow, Fuel Circuit, L/min (US Gal/min)		144 (38)			
Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, Jacket Water Circuit, L/min (US Gal/min)	288 (76)				
Minimum Raw Water Flow @ 27°C (80°F) Inlet Temp, After-Cooler Circuit, L/min (US Gal/min)	416 (110)				
Minimum Raw Water Flow @ 27 <sup>°</sup> C (80°F) Inlet Temp, Fuel Circuit, L/min (US Gal/min)	38 (10)				
Raw Water Delta P @ Min Flow, Jacket Water Circuit, kPa (psi)	2.4 (0.35)				
Raw Water Delta P @ Min Flow, After-cooler Circuit, kPa (psi)	4.1 (0.6)				
Raw Water Delta P @ Min Flow, Fuel Circuit, kPa (psi)		4.8 (0.7)			
Maximum Jacket Water Outlet Temp, °C (°F)	104 (220)	100 (212)	100 (212)		
Maximum After-Cooler Inlet Temp, °C (°F)	66 (150)	66 (150)	66 (150)		
Maximum After-Cooler Inlet Temp @ 11°C (77°F) Ambient, °C (°F)	49 (120)				
Maximum Fuel Return Line Restriction, kPa (in. Hg)	23.7 (7)				

	Standby	Prime	Continuous	
Optional Remote Radiator Cooling <sup>1</sup>	Rating	Rating	Rating	
Set Coolant Capacity, L (US Gal.)		193 (51)		
Max Flow Rate @ Max Friction Head, Jacket Water Circuit, L/min (US Gal/min)		1817 (480)		
Max Flow Rate @ Max Friction Head, Aftercooler Circuit, L/min (US Gal/min)		503 (133)		
Heat Rejected, Jacket Water Circuit, MJ/min (BTU/min)	37.1 (35150)	33.1 (31410)	28.7 (27260)	
Heat Rejected, Aftercooler Circuit, MJ/min (BTU/min)	37.3 (35380)	32.3 (30600)	28.1 (26620)	
Heat Rejected, Fuel Circuit, MJ/min (BTU/min))		2.1 (2000)		
Total Heat Radiated to Room, MJ/min (BTU/min)	17.5 (16634)	15.7 (14872)	13.9 (13150)	
Maximum Friction Head, Jacket Water Circuit, kPa (psi)		69 (10)		
Maximum Friction Head, Aftercooler Circuit, kPa (psi)	48 (7)			
Maximum Static Head, Jacket Water Circuit , m (ft)	18 (60)			
Maximum Static Head, Aftercooler Circuit , m (ft)		18 (60)		
Maximum Jacket Water Outlet Temp, °C (°F)	104 (220)	100 (212)	100 (212)	
Maximum After-Cooler Inlet Temp @ 25°C (77°F) Ambient, °C (°F)	49 (120)			
Maximum After-Cooler Inlet Temp, °C (°F)	66 (150)			
Maximum Fuel Flow, L/hr (US gph)	1893 (500)			
Maximum Fuel Return Line Restriction, kPa (in. Hg)		30.5 (9)		

Weights <sup>2</sup>	
Unit Dry Weight kgs (lbs.)	14649 (32296)
Unit Wet Weight kgs (lbs.)	15152 (33405)

## Notes:

1. 2.

For non-standard remote installations contact your local Cummins Power Generation representative Note: Weights represent a set with standard features. See outline drawing for weights of other configurations

Derating Factors	
Standby	Engine power available up to 1067 m (3500 ft) at ambient temperatures up to $40^{\circ}$ C ( $104^{\circ}$ F), and up to 168 m (550 ft) at 50°C ( $122^{\circ}$ F). Above these elevations, derate at 4.3% per 305 m (1000 ft). Above 50°C ( $122^{\circ}$ F) and 2800 m (9200 ft), derate an additional 4.3% per 305 m (1000 ft) and 12% per $10^{\circ}$ C ( $18^{\circ}$ F).
Prime	Engine power available up to 1067 m (3500 ft) at ambient temperatures up to $40^{\circ}$ C ( $104^{\circ}$ F), and up to 168 m (550 ft) at 50°C ( $122^{\circ}$ F). Above these elevations, derate at 4.3% per 305 m (1000 ft). Above 50°C ( $122^{\circ}$ F) and 2800 m (9200 ft), derate an additional 4.3% per 305 m (1000 ft) and 12% per $10^{\circ}$ C ( $18^{\circ}$ F).
Continuous	Engine power available up to 730 m (2400 ft) at ambient temperatures up to 40°C (104°F). Derate 2% at 0 m (0 ft) for 50°C (122°F) ambient temperature. Above these elevations, derate at 3.3% per 305 m (1000 ft). Above 50°C (122°F) and 2925 m (9600 ft), derate an additional 4.3% per 305 m (1000 ft) and 12% per 10°C (18°F).

## **Ratings Definitions**

Standby:	Prime (Unlimited Running Time):	Base Load (Continuous):
Applicable for supplying emergency power for the duration	Applicable for supplying power in	Applicable for supplying
of normal power interruption. No sustained overload	lieu of commercially purchased	power continuously to a
capability is available for this rating. This rating is applicable	power. Prime power is the	constant load up to the full
to installations served by a reliable normal utility source.	maximum power available at a	output rating for unlimited
This rating is only applicable to variable loads with an	variable load for an unlimited	hours. No sustained overload
average load factor of 80 percent of the standby rating for a	number of hours. A 10% overload	capability is available for this
maximum of 200 hours of operation per year and a	capability is available for limited	rating. Consult authorized
maximum of 25 hours per year at 100% of its standby rating.	time. (Equivalent to Prime Power in	distributor for rating.
The standby rating is only applicable to emergency and	accordance with ISO8528 and	(Equivalent to Continuous
standby applications where the generator set serves as the	Overload Power in accordance with	Power in accordance with
back up to the normal utility source. No sustained utility	ISO3046, AS2789, DIN6271, and	ISO8528, ISO3046, AS2789,
parallel operation is permitted with this rating. (Equivalent to	BS5514). This rating is not	DIN6271, and BS5514). This
Fuel Stop Power in accordance with ISO3046, AS2789,	applicable to all generator set	rating is not applicable to all
DIN6271 and BS5514). Nominally Rated.	models.	generator set models.

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		Toma Diao		Single Phase		Max Surra	Alternator	Feature
Voltage	Connection <sup>1</sup>	Temp Rise Degrees C	Duty <sup>2</sup>	Factor <sup>3</sup>		Max Surge kVA⁴	Data Sheet	Code
380	Wye, 3 Phase	150/125/105	S/P/C	N/A	7327	13	ADS-515	B595
380	Wye, 3 Phase	125/105/80	S/P/C	N/A	7327	13	ADS-515	B598
380	Wye, 3 Phase	105/80	S/P	N/A	7327	13	ADS-515	B599
380	Wye, 3 Phase	105	C	N/A	7695	312	ADS-335	B662
380	Wye, 3 Phase	80	S	N/A	7963	13	ADS-515	B660
440	Wye, 3 Phase	125/105/80	S/P/C	N/A	7361	312	ADS-334	B663
440	Wye, 3 Phase	105	S	N/A	7284	12	ADS-515	B665
440	Wye, 3 Phase	105	С	N/A	6716	312	ADS-333	B666
480	Wye, 3 Phase	125/105/80	S/P/C	N/A	7361	312	ADS-334	B462
480	Wye, 3 Phase	105/80	S/P	N/A	7695	312	ADS-335	B463
480	Wye, 3 Phase	125/105	P/C	N/A	6716	312	ADS-333	B464
480	Wye, 3 Phase	80	S	N/A	7284	12	ADS-515	B601
600	Wye, 3 Phase	125/105/80	S/P/C	N/A	7361	07	ADS-334	B465
600	Wye, 3 Phase	105/80	S/P	N/A	7695	07	ADS-335	B301
600	Wye, 3 Phase	125/105	P/C	N/A	6716	07	ADS-333	B466
600	Wye, 3 Phase	80	S	N/A	7265	07	ADS-515	B604
4160	Wye, 3 Phase	125/105/80	S/P/C	N/A	6307	51	ADS-518	B467
4160	Wye, 3 Phase	105/80	S/P	N/A	6307	51	ADS-518	B313
4160	Wye, 3 Phase	80	S	N/A	6307	51	ADS-518	B605
4160	Wye, 3 Phase	105	С	N/A	7926	51	ADS-324	B502
2470-13800	Wye, 3 Phase	125/105/80	S/P/C	N/A	6062	91	ADS-521	B448
12470	Wye, 3 Phase	105/80	S/P	N/A	6038	87	ADS-521	B567
3200-13800	Wye, 3 Phase	105/80	S/P	N/A	6062	91	ADS-521	B612
12470	Wye, 3 Phase	80	S	N/A	6685	87	ADS-522	B607
3200-13800	Wye, 3 Phase	80	S	N/A	8012	91	ADS-523	B628
13800	Wye, 3 Phase	80	S	N/A	6833	91	ADS-522	B610

## Notes:

1. Limited single phase capability is available from some three phase rated configurations. To obtain single phase rating, multipy the three phase kW rating by the Single Phase Factor<sup>3</sup>. All single phase ratings are at unity power factor.

2. Standby (S), Prime (P) and (C) Continuous ratings.

3. Factor for the Single Phase Output from Three Phase Alternator formula listed below.

4. Maximum rated starting kVA that results in a minimum of 90% of rated sustained voltage during starting.

## Formulas for calculating full load currents:

Three Phase Output	Single Phase Output
kWx1000	kWxSinglePhaseFactorx1000
Voltagex1.73x0.8	Voltage
	•



See your distributor for more information.

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**Important:** Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

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