Generator Set Data Sheet



Model: DQKAH
Frequency: 50 Hz
Fuel Type: Diesel

kVA Rating: 2000 Standby

1825 Prime

1400 Continuous

Emissions Level: EPA NSPS Stationary Emergency Tier 2

2g TA Luft

Exhaust emission data sheet:	EDS-1145
Exhaust emission compliance sheet:	EPA-1206
Sound performance data sheet:	MSP-1135
Cooling performance data sheet:	MCP-231
Prototype test summary data sheet:	PTS-309
Standard set-mounted radiator cooling outline:	A034H896
Optional set-mounted radiator cooling outline:	A034T734
Optional heat exchanger cooling outline:	A042V096
Optional remote radiator cooling outline:	A034U921

	Standby			Prime				Continuous	
Fuel Consumption	kVA (kW)			kVA (kW)				kVA (kW)	
Ratings	2000 (1600)			1825 (1460)				1400 (1120)	
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	Full
US gph	33	60	88	112	34	55	80	104	85
L/hr	125	227	333	423	129	208	302	393	321

Engine	Standby rating	Prime rating	Continuous rating			
Engine manufacturer	Cummins Inc.	Cummins Inc.				
Engine model	QSK60-G11 NR2					
Configuration	Cast iron, V 16 cy	linder				
Aspiration	Turbocharged and	d low temperature at	fter-cooled			
Gross engine power output, kWm (bhp)	1952 (2620)	1728 (2319)	1393 (1870)			
BMEP at set rated load, kPa (psi)	2592 (376)	2289 (332)	1848 (268)			
Bore, mm (in.)	159 (6.25)	159 (6.25)				
Stroke, mm (in.)	190 (7.48)	190 (7.48)				
Rated speed, rpm	1500	1500				
Piston speed, m/s (ft/min)	9.5 (1869)	9.5 (1869)				
Compression ratio	14.5:1	14.5:1				
Lube oil capacity, L (qt)	261 (276)	378 (400)	378 (400)			
Overspeed limit, rpm	2070	2070				
Regenerative power, kW	277	277				

Fuel Flow Standby rating Prime rating Continuous rating Maximum fuel flow, L/hr (US gph) 339 (248) 339 (248) Maximum fuel inlet restriction, kPa (in Hg) 30 (9.0) 30 (9.0) Maximum fuel inlet temperature, ℃ (♥) 71 (160) 71 (160) Air Combustion air, m³/min (scfm) 146 (5173) 144 (5084) 144 (5084) Maximum air cleaner restriction, kPa (in H₂O) 6.2 (25) 486 (906) 478 (892) 446 (835) Alternator cooling air, m³/min (cfm) 359 (12677) 350 (12343) 340 (12000) Exhaust flow at set rated load, m³/min (cfm) 486 (906) 478 (892) 446 (835) Maximum back pressure, kPa (in H₂O) 6.2 (27) 486 (906) 478 (892) 446 (835) Maximum back pressure, kPa (in H₂O) 40 (104)<						
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Maximum fuel inlet temperature, ℃ (♀) 71 (160) Air Air Combustion air, m³/min (scfm) 146 (5173) 144 (5084) 144 (5084) Maximum air cleaner restriction, kPa (in H₂O) 6.2 (25) Alternator cooling air, m³/min (cfm) 192 (6780) Exhaust Exhaust flow at set rated load, m³/min (cfm) 359 (12677) 350 (12343) 340 (12000) Exhaust temperature, ℃ (♀) 486 (906) 478 (892) 446 (835) Maximum back pressure, kPa (in H₂O) 6.2 (27) Standard Set-Mounted Radiator Cooling Ambient design, ℃ (♀) 40 (104) Fan load, kWm, (HP) 40 (53) Coolant capacity (with radiator), L (US gal) 537 (142) Cooling system air flow, m³/min (scfm) 2082 (73537) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum fuel return line restriction kPa (in H₂O) Optional Set-Mounted Radiator Cooling Ambient design, ℃ (℉) 50 (122) 50 (122) Fan load, kWm, (HP) 64 (86) 50 (122) Fan load, kW	Maximum fuel flow, L/hr (US gph)	939 (248)				
Air Combustion air, m³/min (scfm) 146 (5173) 144 (5084) 144 (5084) Maximum air cleaner restriction, kPa (in H₂O) 6.2 (25) Alternator cooling air, m³/min (cfm) 192 (6780) Exhaust Exhaust flow at set rated load, m³/min (cfm) 359 (12677) 350 (12343) 340 (12000) Exhaust temperature, °C (°F) 486 (906) 478 (892) 446 (835) Maximum back pressure, kPa (in H₂O) 6.2 (27) Standard Set-Mounted Radiator Cooling Ambient design, °C (°F) 40 (104) Fan load, kW _m (HP) 40 (53) Coolant capacity (with radiator), L (US gal) 537 (142) Cooling system air flow, m³/min (scfm) 2082 (73537) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum fuel return line restriction kPa (in H₂O) 0.12 (0.5) Optional Set-Mounted Radiator Cooling Ambient design, °C (°F) 50 (122) Fan load, kW _m (HP) 64 (86) Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) Total heat rejection, MJ/min (Btu/min)	Maximum fuel inlet restriction, kPa (in Hg)	30 (9.0)				
Combustion air, m³/min (scfm) 146 (5173) 144 (5084) 144 (5084) Maximum air cleaner restriction, kPa (in H₂O) 6.2 (25) Alternator cooling air, m³/min (cfm) 192 (6780) Exhaust Exhaust flow at set rated load, m³/min (cfm) 359 (12677) 350 (12343) 340 (12000) Exhaust temperature, ℃ (℉) 486 (906) 478 (892) 446 (835) Maximum back pressure, kPa (in H₂O) 6.2 (27) Standard Set-Mounted Radiator Cooling Ambient design, ℃ (℉) 40 (104) Fan load, kWm (HP) 40 (53) Coolant capacity (with radiator), L (US gal) 537 (142) Cooling system air flow, m³/min (scfm) 2082 (73537) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction kPa (in H₂O) 0.12 (0.5) Optional Set-Mounted Radiator Cooling Ambient design, ℃ (℉) 50 (122) Fan load, kWm (HP) 64 (86) Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) Total heat rejection, MJ/min (Btu/min) 87 (82610)	Maximum fuel inlet temperature, °C (°F)	71 (160)				
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Exhaust temperature, ℃ (℉)	Exhaust					
Maximum back pressure, kPa (in H₂O) 6.2 (27) Standard Set-Mounted Radiator Cooling Ambient design, °C (°F) 40 (104) Fan load, kW _m (HP) 40 (53) Coolant capacity (with radiator), L (US gal) 537 (142) Cooling system air flow, m³/min (scfm) 2082 (73537) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5) Maximum fuel return line restriction kPa (in Hg) Optional Set-Mounted Radiator Cooling Ambient design, °C (°F) 50 (122) Fan load, kW _m (HP) 64 (86) Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5)	Exhaust flow at set rated load, m³/min (cfm)	359 (12677)	350 (12343)	340 (12000)		
Standard Set-Mounted Radiator Cooling Ambient design, $^{\circ}$ C ($^{\circ}$) 40 (104) Fan load, kW _m (HP) 40 (53) Coolant capacity (with radiator), L (US gal) 537 (142) Cooling system air flow, m³/min (scfm) 2082 (73537) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5) Maximum fuel return line restriction kPa (in Hg) 0.12 (0.5) Optional Set-Mounted Radiator Cooling Ambient design, $^{\circ}$ C ($^{\circ}$) 50 (122) Fan load, kW _m (HP) 64 (86) Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5)	Exhaust temperature, °C (°F)	486 (906)	478 (892)	446 (835)		
Ambient design, ℃ (℉) 40 (104) Fan load, kW _m (HP) 40 (53) Coolant capacity (with radiator), L (US gal) 537 (142) Cooling system air flow, m³/min (scfm) 2082 (73537) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5) Maximum fuel return line restriction kPa (in Hg) 50 (122) Pan load, kW _m (HP) 64 (86) Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5)	Maximum back pressure, kPa (in H ₂ O)	6.2 (27)		·		
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Total heat rejection, MJ/min (Btu/min) Maximum cooling air flow static restriction, kPa (in H₂O) Maximum fuel return line restriction kPa (in Hg) Optional Set-Mounted Radiator Cooling Ambient design, °C (°F) Fan load, kW _m (HP) Coolant capacity (with radiator), L (US gal) Cooling system air flow, m³/min (scfm) Total heat rejection, MJ/min (Btu/min) Maximum cooling air flow static restriction, kPa (in H₂O) Maximum cooling air flow static restriction, kPa (in H₂O) 87 (82610) 83 (78932) 68 (64496) 80 (64496) 81 (78932) 82 (78932) 83 (78932) 84 (64496) 85 (64496) 86 (64496)		537 (142)				
Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5) Maximum fuel return line restriction kPa (in Hg) Optional Set-Mounted Radiator Cooling Ambient design, °C (°F) 50 (122) Fan load, kWm (HP) 64 (86) Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5)	Cooling system air flow, m ³ /min (scfm)	2082 (73537)	T			
Maximum fuel return line restriction kPa (in Hg) Optional Set-Mounted Radiator Cooling Ambient design, ℃ (℉) 50 (122) Fan load, kW _m (HP) 64 (86) Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5)		87 (82610)	83 (78932)	68 (64496)		
Optional Set-Mounted Radiator Cooling Ambient design, °C (°F) 50 (122) Fan load, kW _m (HP) 64 (86) Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H₂O) 0.12 (0.5)	Maximum cooling air flow static restriction, kPa (in H ₂ O)	0.12 (0.5)				
Ambient design, $^{\circ}$ C ($^{\circ}$ F) 50 (122) Fan load, kW _m (HP) 64 (86) Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H ₂ O) 0.12 (0.5)	Maximum fuel return line restriction kPa (in Hg)					
Fan load, kW _m (HP) $64 (86)$ $Coolant capacity (with radiator), L (US gal) 606 (160) Cooling system air flow, m³/min (scfm) 2347 (82891) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H2O) 0.12 (0.5)$	Optional Set-Mounted Radiator Cooling					
Coolant capacity (with radiator), L (US gal) $606 (160)$ Cooling system air flow, m³/min (scfm) $2347 (82891)$ Total heat rejection, MJ/min (Btu/min) $87 (82610)$ $83 (78932)$ $68 (64496)$ Maximum cooling air flow static restriction, kPa (in H2O) $0.12 (0.5)$	Ambient design, °C (°F)	50 (122)				
Cooling system air flow, m^3 /min (scfm) $2347 (82891)$ Total heat rejection, MJ/min (Btu/min) $87 (82610)$ $83 (78932)$ $68 (64496)$ Maximum cooling air flow static restriction, kPa (in H_2O) $0.12 (0.5)$	Fan load, kW _m (HP)	64 (86)				
Total heat rejection, MJ/min (Btu/min) 87 (82610) 83 (78932) 68 (64496) Maximum cooling air flow static restriction, kPa (in H ₂ O) 0.12 (0.5)	Coolant capacity (with radiator), L (US gal)	606 (160)				
Maximum cooling air flow static restriction, kPa (in H ₂ O) 0.12 (0.5)	Cooling system air flow, m³/min (scfm)	2347 (82891)				
	Total heat rejection, MJ/min (Btu/min)	87 (82610) 83 (78932) 68 (644		68 (64496)		
Maximum fuel return line restriction kPa (in Hg)	Maximum cooling air flow static restriction, kPa (in H ₂ O)	0.12 (0.5)				
	Maximum fuel return line restriction kPa (in Hg)					

Optional Heat Exchanger Cooling

Set coolant capacity, L (US gal)	
Heat rejected, jacket water circuit, MJ/min (Btu/min)	
Heat rejected, aftercooler circuit, MJ/min (Btu/min)	
Heat rejected, fuel circuit, MJ/min (Btu/min)	
Total heat radiated to room, MJ/min (Btu/min)	
Maximum raw water pressure, jacket water circuit, kPa (psi)	
Maximum raw water pressure, aftercooler circuit, kPa (psi)	
Maximum raw water pressure, fuel circuit, kPa (psi)	
Maximum raw water flow, jacket water circuit, L/min (US gal/min)	
Maximum raw water flow, aftercooler circuit, L/min (US gal/min)	
Maximum raw water flow, fuel circuit, L/min (US gal/min)	
Minimum raw water flow at 27 $^{\circ}\text{C}$ (80 $^{\circ}\text{F}) inlet temp, jacket water circuit, L/min (US gal/min)$	
Minimum raw water flow at 27 °C (80 °F) inlet temp, aftercooler circuit, L/min (US gal/min)	
Minimum raw water flow at 27 $^{\circ}\text{C}$ (80 $^{\circ}\text{F}) inlet temp, fuel circuit, L/min (US gal/min)$	
Raw water delta P at min flow, jacket water circuit, kPa (psi)	
Raw water delta P at min flow, aftercooler circuit, kPa (psi)	
Raw water delta P at min flow, fuel circuit, kPa (psi)	
Maximum jacket water outlet temp, ℃ (℉)	
Maximum aftercooler inlet temp, ${}^{\circ}C$ (${}^{\circ}F$)	
Maximum aftercooler inlet temp at 25 °C (77 °F) ambient, °C (°F)	
Maximum fuel return line restriction, kPa (in Hg)	

Optional Remote Radiator Cooling ¹	Standby rating	Prime rating	Continuous rating	
Set coolant capacity, L (US gal)				
Max flow rate at max friction head, jacket water circuit, L/min (US gal/min)	1614 (427)			
Max flow rate at max friction head, aftercooler circuit, L/min (US gal/min)	462 (122)			
Heat rejected, jacket water circuit, MJ/min (Btu/min)	44 (42089)	43 (40340)	37 (35327)	
Heat rejected, aftercooler circuit, MJ/min (Btu/min)	31 (29647)	30 (28492)	22 (21072)	
Heat rejected, fuel circuit, MJ/min (Btu/min)				
Total heat radiated to room, MJ/min (Btu/min)	11 (10786)	10 (10018)	8 (8028)	
Maximum friction head, jacket water circuit, kPa (psi)	48 (7)			
Maximum friction head, aftercooler circuit, kPa (psi)	34 (5)			
Maximum static head, jacket water circuit, m (ft)	18 (60)			
Maximum static head, aftercooler circuit, m (ft)	18 (60)		_	
Maximum jacket water outlet temp, ℃ (°F)	104 (220)	100 (212)	100 (212)	
Maximum aftercooler inlet temp at 25 °C (77 °F) ambient, °C (°F)	49 (120)			
Maximum aftercooler inlet temp, ℃ (℉)	71 (160)	66 (150)	66 (150)	
Maximum fuel flow, L/hr (US gph)				
Maximum fuel return line restriction, kPa (in Hg)				

Weights²

Unit dry weight kgs (lbs)	16182 (35675)
Unit wet weight kgs (lbs)	16882 (37218)

Notes:

- $^{\rm 1}$ For non-standard remote installations contact your local Cummins representative.
- ² Weights represent a set with standard features. See outline drawing for weights of other configurations.

Derating Factors

Standby	Standard cooling system: Full rated power available up to 1497 m (4917 ft) at 40 $^{\circ}$ C. Above these conditions, derates by 10% per 1000 m (3281 ft) and 13.5% per 10 $^{\circ}$ C.
	Enhanced cooling system: Full rated power available up to 149 m (489 ft) at 50 ℃. Above these conditions, derates by 10% per 1000 m (3281 ft).
Duima	Standard cooling system: Full rated power available up to 1325 m (4346 ft) at 40 °C. Above these conditions, derates by 12% per 1000 m (3281 ft) and 12.5% per 10 °C.
Prime	Enhanced cooling system: Derates by 10% at sea level at 50 ℃. Above these conditions, derates by 11% per 1000 m (3281 ft).
Continuous	Standard cooling system: Full rated power available up to 1013 m (3320 ft) at 40 ℃. Above these conditions, derates by 15% per 1000 m (3281 ft) and 17.5% per 10 ℃.
Continuous	Enhanced cooling system: Derates by 12.5% at sea level at 50 °C. Above these conditions, derates by 15% per 1000 m (3281 ft).

Ratings Definitions

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Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) is in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514. No sustained overload capability is available at this rating.

Alternator Data								
Voltage	Connection ¹	Temp rise degrees C	Duty ²	Single phase factor ³	Max surge kVA ⁴	Winding No.	Alternator data sheet	Feature code
380-440	Wye, 3-phase	105	С		3960	312	ADS-332	BA01-2
380/440	Wye, 3-phase	125/80	P/C		4563	312	ADS-333	BA14-2
400-415	Wye, 3-phase	163/125/80	S/P/C		4563	312	ADS-333	BA25-2
380-440	Wye, 3-phase	125/105/80	S/P/C		5000	312	ADS-334	BA11-2
380	Wye, 3-phase	125/80/80	S/P/C		5280	312	ADS-335	BA17-2
380-440	Wye, 3-phase	125	С		3688	312	ADS-331	BA06-2
400-440	Wye, 3-phase	105/80/80	S/P/C		5280	312	ADS-335	BA09-2
380-415	Wye, 3-phase	105/80/80	S/P/C		5971	12	ADS-515	BA09-2
440	Wye, 3-phase	105/105/80	S/P/C		5971	12	ADS-515	BA09-2
380-440	Wye, 3-phase	80/80/80	S/P/C		6758	12	ADS-516	BA27-2
3300	Wye, 3-phase	80/80/80	S/P/C		5477	51	ADS-518	BA35-2
6300-6600	Wye, 3-phase	105/80/80	S/P/C		5250	61	ADS-521	BA41-2
6300-6600	Wye, 3-phase	80/80/80	S/P/C		6076	61	ADS-522	BA47-2
11000	Wye, 3-phase	80/80/80	S/P/C		5196	83	ADS-521	BA46-2

Notes:

- ¹ Limited single phase capability is available from some three phase rated configurations. To obtain single phase rating, multiply the three phase kW rating by the Single Phase Factor³. All single phase ratings are at unity power factor.
- ² Standby (S), Prime (P) and Continuous ratings (C).
- 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
kW x 1000	kW x SinglePhaseFactor x 1000
Voltage x 1.73 x 0.8	Voltage

Warning: 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.

For more information contact your local Cummins distributor or visit power.cummins.com

