

Generator Set Data Sheet	Model: DQKH Frequency: 60 Fuel Type: Diesel
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Exhaust Emission Data Sheet:	EDS-1014
Emissions Compliance Sheet:	EPA1CS-1067
Measured Sound Performance Data Sheet:	MSP-1001
Measured Cooling Performance Data Sheet:	MCP-126
Prototype Test Summary Data Sheet:	PTS-155
Standard Set-Mounted Radiator Cooling Outline:	500-3877
Optional Remote Radiator Cooling Outline:	500-3878

Fuel Consumption	Standby				Prime				Continuous
	kW (kVA)				kW (kVA)				kW (kVA)
Ratings	2250 (2812)				NA				NA
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	Full
US gph	45	80	113	150					
L/hr	171	303	429	569					

Engine	Standby Rating	Prime Rating	Continuous Rating
Engine Manufacturer	Cummins		
Engine Model	QSK60-G9		
Configuration	Cast Iron, 60°V 16 cylinder		
Aspiration	Turbocharged and Low Temperature Aftercooled		
Gross Engine Power Output, kWm (bhp)	2425 (3251)		
BMEP at Set Rated Load, kPa (psi)	2682 (389)		
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)	176 (186)		
Overspeed Limit, rpm	2100 ±50		
Regenerative Power, kW	207		
Fuel Flow			
Maximum Fuel Flow, L/hr (US gph)	1685 (445)		
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)	183 (6455)		
Maximum Air Cleaner Restriction, kPa (in. H ₂ O)	6.2 (25)		
Alternator Cooling Air, m³/min (cfm)	161 (5700)		
Exhaust			
Exhaust Gas Flow at Set Rated Load, m³/min (cfm)	445 (15705)		
Exhaust Gas Temperature, °C (°F)	479 (895)		
Maximum Exhaust Back Pressure, kPa (in. H ₂ O)	6.7 (27)		

Standard Set-Mounted Radiator Cooling	Standby Rating	Prime Rating	Continuous Rating
Ambient Design, °C (°)		40 (104)	
Fan Load, KW _m (HP)		57.4 (77)	
Coolant Capacity (with Radiator), L (US Gal.)		492 (130)	
Cooling System Air Flow, m ³ /min (scfm)		2294 (81000)	
Total Heat Rejection, MJ/min (BTU/min)	94.1 (89164)		
Maximum Cooling Air Flow Static Restriction, kPa (in. H ₂ O)		0.12 (0.5)	
Maximum Fuel Return Line Restriction, kPa (in. Hg)		23.7 (7)	

Optional Remote Radiator Cooling¹	Standby Rating	Prime Rating	Continuous 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)	45.1 (42765)		
Heat Rejected, Aftercooler Circuit, MJ/min (BTU/min)	36.4 (34525)		
Heat Rejected, Fuel Circuit, MJ/min (BTU/min)		2.1 (2000)	
Total Heat Radiated to Room, MJ/min (BTU/min)	18.8 (17887)		
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)		
Maximum After-Cooler Inlet Temp @ 25°C (77°F) Ambient, °C (°F)		49 (120)	
Maximum After-Cooler Inlet Temp, °C (°F)		71 (160)	
Maximum Fuel Flow, L/hr (US gph)		1685 (445)	
Maximum Fuel Return Line Restriction, kPa (in. Hg)		30.5 (9)	

Weights²	
Unit Dry Weight kgs (lbs.)	15254 (33629)
Unit Wet Weight kgs (lbs.)	15781 (34790)

Notes:

- 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 260 m (853 ft) at ambient temperatures up to 40°C (104°F). Above these elevations, derate at 3.3% per 305 m (1000 ft) and 8.4% per 10°C (18°F).	
Ratings Definitions		
Standby:	Prime (Unlimited Running Time):	Base Load (Continuous):
Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. This rating is applicable to installations served by a reliable normal utility source. This rating is only applicable to variable loads with an average load factor of 80 percent of the standby rating for a maximum of 200 hours of operation per year and a maximum of 25 hours per year at 100% of its standby rating. The standby rating is only applicable to emergency and standby applications where the generator set serves as the back up to the normal utility source. No sustained utility parallel operation is permitted with this rating. (Equivalent to Fuel Stop Power in accordance with ISO3046, AS2789, DIN6271 and BS5514). Nominally Rated.	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). This rating is not applicable to all generator set models.	Applicable for supplying power continuously to a constant load up to the full output rating for unlimited hours. No sustained overload capability is available for this rating. Consult authorized distributor for rating. (Equivalent to Continuous Power in accordance with ISO8528, ISO3046, AS2789, DIN6271, and BS5514). This rating is not applicable to all generator set models.

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	Wye, 3 Phase	125	S	N/A	7327	13	ADS-515	B598
380	Wye, 3 Phase	105	S	N/A	7963	13	ADS-516	B599
440	Wye, 3 Phase	150	S	N/A	7284	12	ADS-515	B701
440	Wye, 3 Phase	105	S	N/A	8438	12	ADS-516	B665
480	Wye, 3 Phase	150	S	N/A	7695	312	ADS-335	B453
480	Wye, 3 Phase	125	S	N/A	7284	12	ADS-515	B276
480	Wye, 3 Phase	105	S	N/A	8438	12	ADS-516	B600
480	Wye, 3 Phase	80	S	N/A	9728	12	ADS-517	B601
600	Wye, 3 Phase	150	S	N/A	7695	07	ADS-335	B419
600	Wye, 3 Phase	125	S	N/A	7265	07	ADS-515	B602
600	Wye, 3 Phase	105	S	N/A	8253	07	ADS-516	B603
600	Wye, 3 Phase	80	S	N/A	9611	07	ADS-517	B604
4160	Wye, 3 Phase	150	S	N/A	6307	51	ADS-518	B606
4160	Wye, 3 Phase	125	S	N/A	6307	51	ADS-518	B467
4160	Wye, 3 Phase	105	S	N/A	6307	51	ADS-518	B313
4160	Wye, 3 Phase	80	S	N/A	7315	51	ADS-519	B605
12470	Wye, 3 Phase	125	S	N/A	6038	87	ADS-521	B609
12470	Wye, 3 Phase	105	S	N/A	6685	87	ADS-522	B608
13200-13800	Wye, 3 Phase	125	S	N/A	6062	91	ADS-521	B611
13200-13800	Wye, 3 Phase	105	S	N/A	6833	91	ADS-522	B612
13800	Wye, 3 Phase	80	S	N/A	8012	91	ADS-523	B610

Notes:

- 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.
- Standby (S), Prime (P) and (C) Continuous ratings.
- Factor for the *Single Phase Output from Three Phase Alternator* formula listed below.
- 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
$\frac{kW \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$	$\frac{kW \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$



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.