

# Generator Set Data Sheet



**Model:** DQKAN  
**Frequency:** 60 Hz  
**Fuel Type:** Diesel  
**kW Rating:** 2500 Standby

**Emissions Level:** EPA NSPS Stationary Emergency Tier 2

Exhaust emission data sheet:	EDS-1153
Exhaust emission compliance sheet:	EPA-1223
Sound performance data sheet:	MSP-1189
Cooling performance data sheet:	MCP-269
Prototype test summary data sheet:	PTS-315
Standard set-mounted radiator cooling outline:	A072K811

Fuel Consumption	kW (kVA)			
	1/4	1/2	3/4	Full
Ratings	2500 (3125) †			
US gph	55.0	86.0	121	165
L/hr	208	325	459	625

†DCC available at standby power subject to Cummins' site-specific assessment. Please contact your Cummins Distributor.

## Engine

Engine manufacturer	Cummins Inc.
Engine model	QSK60-G19 NR2
Configuration	Cast iron, V 16 cylinder
Aspiration	Turbocharged and low temperature after-cooled
Gross engine power output, kWm (bhp)	2715 (3640)
BMEP at set rated load, kPa (psi)	3006 (436)
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)	378 (400)
Overspeed limit, rpm	2070
Regenerative power, kW	207

## Fuel Flow

Maximum fuel flow, L/hr (US gph)	1105 (292)
Maximum fuel inlet restriction, clean/dirty, kPa (in Hg)	16.9 (5) / 30 (9)
Maximum fuel inlet temperature, °C (°F)	71 (160)

## Air

Combustion air, m <sup>3</sup> /min (scfm)	193 (6829)
Maximum air cleaner restriction, clean/dirty, kPa (in H <sub>2</sub> O)	1.3 (7) / 5.3 (20.6)
Alternator cooling air, m <sup>3</sup> /min (cfm)	200 (7056)

## Exhaust

Exhaust flow at set rated load, m <sup>3</sup> /min (cfm)	517 (18269)
Exhaust temperature, °C (°F)	551 (1022)
Maximum back pressure, kPa (in H <sub>2</sub> O)	7.4 (30)

## Standard Set-Mounted Radiator Cooling

Ambient design, °C (°F)	43.3 (110)
Fan load, kW <sub>m</sub> (HP)	43 (58)
Coolant capacity (with radiator), L (US gal)	587 (155)
Cooling system air flow, m <sup>3</sup> /min (scfm)	2649 (93550)
Total heat rejection, MJ/min (Btu/min)	88.4 (83894)
Maximum cooling air flow static restriction, kPa (in H <sub>2</sub> O)	0.12 (0.5)

## Weights<sup>1</sup>

Unit dry weight kgs (lbs)	21217 (46775)
Unit wet weight kgs (lbs)	22279 (49117)

<sup>1</sup> Weights represent a set with standard features. See outline drawing for weights of other configurations.

## Derating Factors

Full rated power available up to 305 m (1000 ft) at ambient temperatures up to 40°C (104°F). Above this elevation, derate at 5% per 305m (1000 ft) and 12% per 10°C (18°F).

## Ratings Definitions

Emergency Standby Power (ESP): Applicable for supplying power continuously to varying electrical loads for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528 and ISO 3046-1, obtained and corrected in accordance with ISO 15550).

## Alternator Data

Voltage	Connection <sup>1</sup>	Temp rise degree C <sup>2</sup>	Duty	Max surge kVA <sup>4</sup>	Winding No.	Alternator data sheet	Feature code
380	3 Ph Wye	105	S	13,024	13	ADS-531	B408
380	3 Ph Wye	125	S	7,944	13	ADS-516	B598
416	3 Ph Wye	150	S	9,719	12	ADS-517	B682
416	3 Ph Wye	105	S	13,283	12	ADS-531	B715
416	3 Ph Wye	80	S	14,781	12	ADS-532	B734
440	3 Ph Wye	105	S	13,024	12	ADS-531	B664
440	3 Ph Wye	80	S	14,781	12	ADS-532	B688
440	3 Ph Wye	150	S	8,412	12	ADS-516	B813
480	3 Ph Wye	125	S	8,412	12	ADS-516	B246
480	3 Ph Wye	105	S	9,719	12	ADS-517	B600
480	3 Ph Wye	80	S	13,024	12	ADS-531	B601
480	3 Ph Wye	80	S	14,781	12	ADS-532	B903
600	3 Ph Wye	125	S	8,189	7	ADS-516	B602
600	3 Ph Wye	80	S	12,426	7	ADS-531	B604
600	3 Ph Wye	80	S	14,781	7	ADS-532	B904
4,160	3 Ph Wye	80	S	11,649	851	ADS-653	B905
4,160	3 Ph Wye	80	S	14,835	851	ADS-652	B605
4,160	3 Ph Wye	150	S	10,395	851	ADS-649	BB77
12,294	3 Ph Wye	105	S	10,890	991	ADS-659	BC24
12,470	3 Ph Wye	105	S	13,908	991	ADS-660	B568
12,470	3 Ph Wye	80	S	13,908	991	ADS-660	B607
13,200	3 Ph Wye	105	S	12,294	991	ADS-659	B501
13,200	3 Ph Wye	80	S	13,908	991	ADS-660	B807
13,800	3 Ph Wye	80	S	13,908	991	ADS-660	B610
13,800	3 Ph Wye	80	S	15,180	991	ADS-661	B909

### Notes:

<sup>1</sup> 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 Factor<sup>2</sup>. All single-phase ratings are at unity power factor.

<sup>4</sup> 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

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

### Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

For more information contact your local Cummins distributor or visit [power.cummins.com](http://power.cummins.com)

**Our energy working for you.™**

