

Technical Data

QSK23 Generating Sets – 50 Hz

	Prime				Standby				Prime				Standby			
Ratings kVA (kW)	814 (651)				894 (715)				760 (608)				840 (672)			
Model	651 DQCC				715 DQCC				608 DQCB				672 DQCB			
Engine Model	QSK23G3				QSK23G3				QSK23G3				QSK23G3			
Aspiration	Turbocharged and Air to Air After Cooled				Turbocharged and Air to Air After Cooled				Turbocharged and Air to Air After Cooled				Turbocharged and Air to Air After Cooled			
Gross Engine Power Output (kWm)	701				768				656				724			
BMEP (kPA)	2441				2675				2282				2516			
Bore (mm)	170				170				170				170			
Stroke (mm)	170				170				170				170			
Displacement (L)	23.15				23.15				23.15				23.15			
Cylinder Arrangement	6 In-Line				6 In-Line				6 In-Line				6 In-Line			
Piston Speed (m/s)	8.6				8.6				8.6				8.6			
Compression Ratio	16:1				16:1				16:1				16:1			
Lube Oil Capacity (L)	135				135				135				135			
Overspeed Limit RPM	2600				2600				2600				2600			
Fuel Consumption Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
Fuel Consumption l/hr	46	85	121	161	50	92	132	178	44	79	117	151	47	86	127	168
Maximum Fuel Flow (l/h)	684				684				684				684			
Maximum Inlet Restriction mm. Hg	203				203				203				203			
Maximum Return Restriction mm. Hg	229				229				229				229			
Maximum Fuel Inlet Temperature °C	70				70				70				70			
Maximum Fuel Return Temperature °C	71				71				71				71			
Coolant Capacity (With Radiator) litres	95.5				95.5				95.5				95.5			
Coolant Flow Rate (engine jacket) litres/s	7.6				7.6				7.6				7.6			
Heat rejection to Eng Jacket Coolant kWm	215				222				204				227			
Heat Rejection to Aftercooler kWm	122				146				110				122			
Heat Rejection to Fuel kWm	6.8				6.8				6.8				6.8			
Heat Rejection to Exhaust kWm	507				570				482				536			
Heat Radiated to Ambient (Engine) kW	65				71				61				67			
Max Coolant Friction Head (JW) kPa	34				34				34				34			
Maximum Coolant Static Head above crank centerline m	18.3				18.3				18.3				18.3			
Max Top Tank Temp (Jacket) °C	100				104				100				104			
Max Inlet Temp (aftercooler) °C	73				73				73				73			
Combustion Air m ³ /min	48.9				53.28				46.74				49.26			
Maximum Air Cleaner Restriction with clean filter element in. H ₂ O	381				381				381				381			
Alternator Cooling Air m ³ /min	96.84				96.84				96.84				96.84			
Radiator Cooling Air m ³ /min	882				882				882				882			
Max Static Restriction in. H ₂ O	0.5				0.5				0.5				0.5			
Exhaust Gas Flow (l/s)	2259				2463				2183				2334			
Exhaust Gas Temperature °C	532				543				541				550			
Maximum Back Pressure (mm Hg)	76.2				76.2				76.2				76.2			
Derating Factors — Engine	RTF				RTF				RTF				RTF			

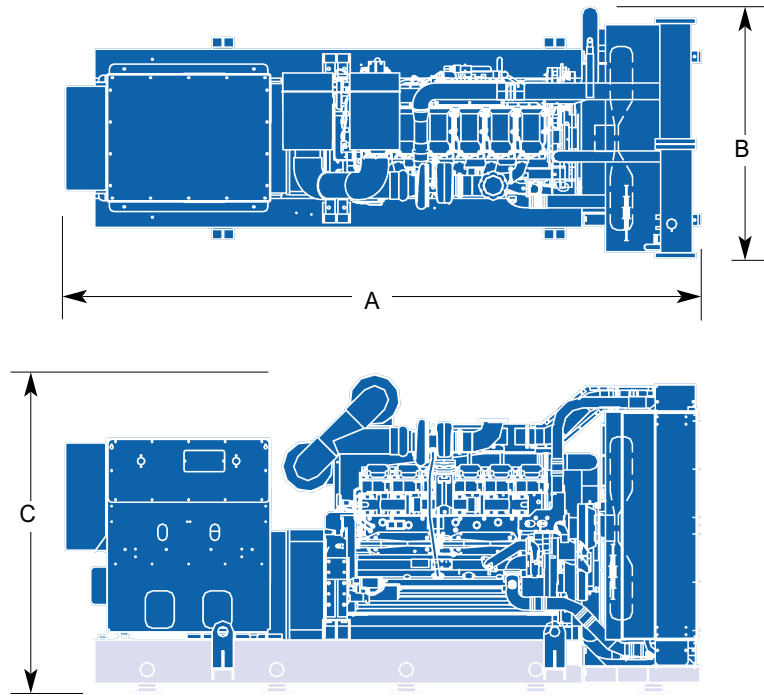
Ratings

Prime: 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. Nominally rated. (Equivalent to Prime Power in accordance with ISO 8528 and overload power in accordance with ISO3046, AS2789, DIN6271 and BS5514).

Standby: Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. Nominally Rated (equivalent to fuel stop power in accordance with ISO 3046, AS2789, DIN6271 and BS5514).

Prime and standby ratings are outputs at 40°C ambient temperature and 1000 m ASL.

Dimensions and Weights – 50 Hz



Model	Dim A mm (in)	Dim B mm (in)	Dim C mm (in)	Set Weight* dry kg (lbs)	Set Weight* wet kg (lbs)
DQCB	4414 (173.8)	1738 (68.4)	2214 (87.2)	6527 (14392)	6668 (14703)
DQCC	4414 (173.8)	1738 (68.4)	2214 (87.2)	6682 (14734)	6623 (15045)

*Set weights are **without** sub-base tank. Dimensions and weights are for **guidance** only. Do not use for installation design. Ask for certified drawings on your specific application.



Power Generation

See your distributor for more information.

Cummins Power Generation Limited
 Manston Park, Columbus Avenue
 Manston, Ramsgate
 Kent CT12 5BF, UK
 Telephone: +44 (0)1843 255000
 Fax: +44 (0)1843 255902
 Email: cpg.uk@cummins.com
www.cumminspower.com
www.cummins.com

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