Model: DQKB Frequency: 60 Fuel type: Diesel

KW rating: 1750 standby

1600 prime

1450 continuous

## > Generator set data sheet

# Power Generation

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Exhaust emission data sheet:	EDS-182	
Exhaust emission compliance sheet:	EPA-1007	
Sound performance data sheet:	MSP-175	
Cooling performance data sheet:	MCP-108	
Prototype test summary data sheet:	PTS-155	
Standard set-mounted radiator cooling outline:	0500-3947	
Optional set-mounted radiator cooling outline:	0500-3948	
Optional heat exchanger cooling outline:	0500-3946	
Optional remote radiator cooling outline:	0500-3945	

	<b>Standby kW (kVA)</b> 1750 (2188)			Prime kW (kVA) 1600 (2000)				Continuous	
Fuel consumption								kW (kVA)	
Ratings							_	1450 (1813)	
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	Full
US gph	39	64	90	117	37	60	83	108	99
L/hr	149	242	342	443	141	226	316	407	373

Engine	Standby rating	Prime rating	Continuous rating		
Engine manufacturer	Cummins Inc.				
Engine model	QSK60-G6 NR1				
Configuration	Cast iron, V 16 cy	/linder			
Aspiration	Turbocharged and	d low temperature aftero	ooled		
Gross engine power output, kWm (bhp)	2179 (2922)	1975 (2647)	1739 (2332)		
BMEP at set rated load, kPa (psi)	2117 (307)	1917 (278)	1806 (262)		
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	Standby rating	Prime rating	Continuous rating		
Combustion air, m³/min (scfm)	156 (5545)	147 (5245)	139 (4940)		
Maximum air cleaner restriction, kPa (in H <sub>2</sub> O)	6.2 (25)				
Alternator cooling air, m³/min (cfm)	289 (10200)				
Exhaust					
Exhaust flow at set rated load, m³/min (cfm)	366 (13040)	344 (12230)	322 (11450)		
	454 (850)	443 (830)	` ′		
Exhaust temperature, °C (°F)	6.7 (27)	443 (630)	435 (815)		
Maximum back pressure, kPa (in H <sub>2</sub> O)	0.7 (21)				
Standard set-mounted radiator cooling	40 (104)				
Ambient design, °C (°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, m³/min (scfm)	1996 (70500)	70.4 (0000.1)	00.5 (00000)		
Total heat rejection, MJ/min (Btu/min)	79.4 (75225)	72.1 (68384)	66.5 (62992)		
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, °C (°F)	50 (122)				
Fan load, kW <sub>m</sub> (HP)	57.4 (77)				
Coolant capacity (with radiator), L (US gal)	492 (130)				
Cooling system air flow, m³/min (scfm)	2294 (81000)				
Total heat rejection, MJ/min (Btu/min)	79.4 (75225)	72.1 (68384)	66.5 (62992)		
Maximum cooling air flow static restriction, kPa (in H <sub>2</sub> O)	0.12 (0.5)		<u> </u>		
Maximum fuel return line restriction, kPa (in Hg)	23.7 (7)				
Optional heat exchanger cooling	454 (100)				
Set coolant capacity, L (US gal)	454 (120)	00.5 (07005)	00.7 (05005)		
Set coolant capacity, L (US gal) Heat rejected, jacket water circuit, MJ/min (Btu/min)	31.7 (30065)	28.5 (27025)	26.7 (25335)		
Set coolant capacity, L (US gal) Heat rejected, jacket water circuit, MJ/min (Btu/min) Heat rejected, aftercooler circuit, MJ/min (Btu/min)	31.7 (30065) 30.6 (28960)	28.5 (27025) 27.8 (26400)	26.7 (25335) 25.1 (23780)		
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)	31.7 (30065) 30.6 (28960) 2.1 (2000)	27.8 (26400)	25.1 (23780)		
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)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200)	` '	` '		
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)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150)	27.8 (26400)	25.1 (23780)		
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)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150)	27.8 (26400)	25.1 (23780)		
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)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150)	27.8 (26400)	25.1 (23780)		
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)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150)	27.8 (26400)	25.1 (23780)		
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)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360)	27.8 (26400)	25.1 (23780)		
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)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360)	27.8 (26400)	25.1 (23780)		
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 °C (80 °F) inlet temp, jacket water circuit, L/min (US gal/min)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360)	27.8 (26400)	25.1 (23780)		
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 °C (80 °F) inlet temp, jacket water	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360) 144 (38)	27.8 (26400)	25.1 (23780)		
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 at 27 °C (80 °F) inlet temp, jacket water circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, aftercooler circuit,	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360) 144 (38) 288 (76)	27.8 (26400)	25.1 (23780)		
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 °C (80 °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 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360) 144 (38) 288 (76) 416 (110)	27.8 (26400)	25.1 (23780)		
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 °C (80 °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 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360) 144 (38) 288 (76) 416 (110) 38 (10)	27.8 (26400)	25.1 (23780)		
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 °C (80 °F) inlet temp, jacket water circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360) 144 (38) 288 (76) 416 (110) 38 (10) 2.4 (0.35)	27.8 (26400)	25.1 (23780)		
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 °C (80 °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 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Raw water delta P at min flow, jacket water circuit, kPa (psi)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360) 144 (38) 288 (76) 416 (110) 38 (10) 2.4 (0.35) 4.1 (0.6)	27.8 (26400)	25.1 (23780)		
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 °C (80 °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 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °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, fuel circuit, kPa (psi)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360) 144 (38) 288 (76) 416 (110) 38 (10) 2.4 (0.35) 4.1 (0.6) 4.8 (0.7)	27.8 (26400)	25.1 (23780) 12.5 (11877)		
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 at 27 °C (80 °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 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °F) inlet temp, fuel circuit, L/min (US gal/min) Minimum raw water flow at 27 °C (80 °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, fuel circuit, kPa (psi) Raw water delta P at min flow, fuel circuit, kPa (psi) Maximum jacket water outlet temp, °C (°F)	31.7 (30065) 30.6 (28960) 2.1 (2000) 15 (14200) 1034 (150) 1034 (150) 1034 (150) 1363 (360) 1363 (360) 144 (38) 288 (76) 416 (110) 38 (10) 2.4 (0.35) 4.1 (0.6) 4.8 (0.7) 104 (220)	27.8 (26400)	25.1 (23780) 12.5 (11877)		

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Optional remote radiator cooling <sup>1</sup>	Standby rating	Prime rating	Continuous rating		
Set coolant capacity, L (US gal)	193 (51)				
Max flow rate at max friction head, jacket water circuit, L/min (US gal/min)	1817 (480)				
Max flow rate at max friction head, aftercooler circuit, L/min (US gal/min)	502 (133)				
Heat rejected, jacket water circuit, MJ/min (Btu/min)	31.7 (30065)	28.5 (27025)	26.7 (25335)		
Heat rejected, aftercooler circuit, MJ/min (Btu/min)	30.6 (28960)	27.8 (26400)	25.1 (23780)		
Heat rejected, fuel circuit, MJ/min (Btu/min)	2.1 (2000)				
Total heat radiated to room, MJ/min (Btu/min)	15 (14200)	13.7 (12959)	12.5 (11877)		
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 aftercooler inlet temp at 25 °C (77 °F) ambient, °C (°F)	49 (120)				
Maximum aftercooler 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)	14365 (31669)
Unit wet weight kgs (lbs)	14868 (32779)

#### Notes:

# **Derating factors**

Standby	Engine power available up to 1950 m (6400 ft) at ambient temperatures up to 40 °C (104 °F) and up to 1050 m (3450 ft) at 50 °C (122 °F). Above these elevations, derate at 4.3% per 305 m (1000 ft). Above 50 °C (122 °F) and 2800 m (9200 ft), derate an additional 4.3% per 305 m (1000 ft) and 12% per 10 °C (18 °F).
Prime	Engine power available up to 1950 m (6400 ft) at ambient temperatures up to 40 °C (104 °F) and up to 1050 m (3450 ft) at 50 °C (122 °F). Above these elevations, derate at 4.3% per 305 m (1000 ft). Above 50 °C (122 °F) and 2800 m (9200 ft), derate an additional 4.3% per 305 m (1000 ft) and 12% per 10 °C (18 °F).
Continuous	Engine power available up to 1600 m (5240 ft) at ambient temperatures up to 40 °C (104 °F) and up to 660 m (2178 ft) at 50 °C (122 °F). 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**

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.

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<sup>&</sup>lt;sup>1</sup> For non-standard remote installations contact your local Cummins Power Generation representative.

<sup>&</sup>lt;sup>2</sup> Weights represent a set with standard features. See outline drawing for weights of other configurations.

#### **Alternator data**

Voltage	Connection <sup>1</sup>	Temp rise degrees C	Duty <sup>2</sup>	Single phase factor <sup>3</sup>	Max surge kVA⁴	Winding No.	Alternator data sheet	Feature Code
380	Wye, 3-phase	150/125/105	S/P/C		7695	312	ADS-335	B595
380	Wye, 3-phase	125/105/80	S/P/C		7327	13	ADS-515	B598
380	Wye, 3-phase	105/80	S/P		7327	13	ADS-515	B599
380	Wye, 3-phase	105/80	P/C		7695	312	ADS-335	B659
380	Wye, 3-phase	80	S		7327	13	ADS-515	B660
380	Wye, 3-phase	125/105	P/C		7361	312	ADS-334	B596
440	Wye, 3-phase	125/105/80	S/P/C		6716	312	ADS-333	B663
440	Wye, 3-phase	105/80	S/P		7361	312	ADS-334	B664
480	Wye, 3-phase	125/105/80	S/P/C		6716	312	ADS-333	B462
480	Wye, 3-phase	105/80	S/P		7361	312	ADS-334	B463
480	Wye, 3-phase	125/105	P/C		5473	312	ADS-332	B464
480	Wye, 3-phase	80	S		7361	312	ADS-334	B601
480	Wye, 3-phase	105	S		9720	19	ADS-517	B796
600	Wye, 3-phase	125/105/80	S/P/C		6716	07	ADS-333	B465
600	Wye, 3-phase	105/80	S/P		7361	07	ADS-334	B301
600	Wye, 3-phase	125/105	P/C		5473	07	ADS-332	B466
600	Wye, 3-phase	80	S		7361	07	ADS-334	B604
4160	Wye, 3-phase	125/105/80	S/P/C		7926	51	ADS-324	B467
4160	Wye, 3-phase	105/80	S/P		6307	51	ADS-518	B313
4160	Wye, 3-phase	105	S		7926	51	ADS-324	B491
4160	Wye, 3-phase	80	S		6307	51	ADS-518	B605
4160	Wye, 3-phase	105	С		7005	51	ADS-323	B502
4160	Wye, 3-phase	105	S		8752	59	ADS-520	B795
12470	Wye, 3-phase	80	S		6038	87	ADS-521	B607
12470-13800	Wye, 3-phase	125/105/80	S/P/C		6062	91	ADS-521	B448
12470-13800	Wye, 3-phase	105/80	S/P		6062	91	ADS-521	B447
13200-13800	Wye, 3-phase	80	S		6062	91	ADS-521	B628
13800	Wye, 3-phase	105	S		8001	99	ADS-523	B797

#### Notes:

## Formulas for calculating full load currents:

Three phase output

Single phase output

kW x 1000 Voltage x 1.73 x 0.8 kW x SinglePhaseFactor x 1000 Voltage

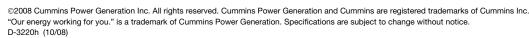
#### **Cummins Power Generation**

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**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.

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<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> Standby (S), Prime (P) and Continuous ratings (C).

<sup>&</sup>lt;sup>3</sup> Factor for the Single Phase Output from Three Phase Alternator formula listed below.

<sup>&</sup>lt;sup>4</sup> Maximum rated starting kVA that results in a minimum of 90% of rated sustained voltage during starting.