



» Generator set data sheet

Model: C400 D5
Frequency: 50
Fuel Type: Diesel

Spec sheet:	SS9-CPGK
Noise data sheet (Open/enclosed):	ND50-OS550 / ND50-CS550
Airflow data sheet:	AF50-550
Derate data sheet (Open/enclosed):	DD50-OS550 / DD50-CS550
Transient data sheet:	TD50-550

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	400 (320)				360 (288)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	4.9	8.9	13.5	18.5	4.6	8.6	12.5	16.7
L/hr	22.4	40.3	61.6	84.0	21.0	39.0	57.0	76.0

Engine	Standby Rating	Prime Rating
Engine manufacturer	Cummins	
Engine model	NTA855 G4	
Configuration	4 Cycle; In-line; 6 Cylinder Diesel	
Aspiration	Turbocharged and Aftercooled	
Gross engine power output, kWm	351	317
BMEP at set rated load, kPa	1999	1806
Bore, mm	140	
Stroke, mm	152	
Rated speed, rpm	1500	
Piston speed, m/s	7.6	
Compression ratio	14:1	
Lube oil capacity, L	36	
Overspeed limit, rpm	1800 ±50	
Regenerative power, kW	22	
Governor type	Electronic	
Starting voltage	24 Volts DC	

Fuel flow	
Maximum fuel flow, L/hr	375
Maximum fuel inlet restriction, mm Hg	152
Maximum fuel inlet temperature (°C)	70

Air	Standby Rating	Prime Rating
Combustion air, m ³ /min	26.10	24.50
Maximum air cleaner restriction, kPa	6.2	

Exhaust		
Exhaust gas flow at set rated load, m ³ /min	73.5	67.7
Exhaust gas temperature, °C	541	524
Maximum exhaust back pressure, kPa	10.2	

Standard set-mounted radiator cooling		
Ambient design, °C	50	
Fan load, KW _m	8	
Coolant capacity (with radiator), L	45	
Cooling system air flow, m ³ /sec @ 12.7mmH ₂ O	7.5	
Total heat rejection, BTU/min	11750	10625
Maximum cooling air flow static restriction mmH ₂ O	19.1	

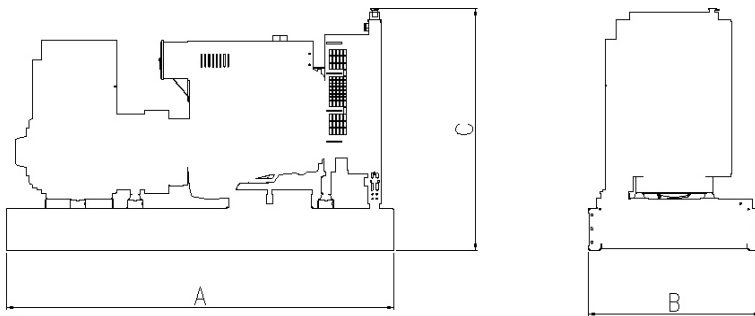
Weights*	Open	Enclosed
Unit dry weight kgs	3373	4921
Unit wet weight kgs	3563	5698

* Weights represent a set with standard features. See outline drawing for weights of other configurations

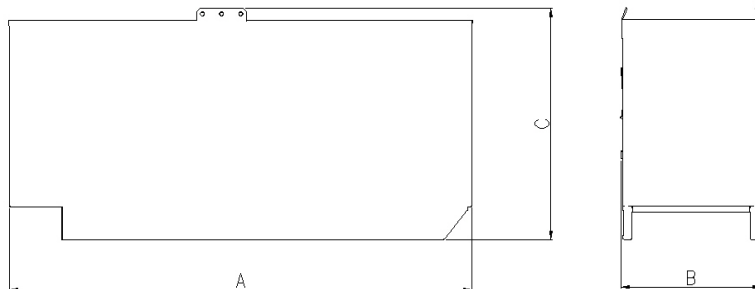
Dimensions	Length	Width	Height
Standard open set dimensions	3549	1100	2078
Enclosed set standard dimensions	5110	1563	2447

Genset outline

Open set



Enclosed set



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

Alternator data

Connection ¹	Temp rise °C	Duty ²	Alternator	Voltage
Wye, 3 Phase	163/125	S/P	HC4F	380-415V

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) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

Formulas for calculating full load currents

Three phase output

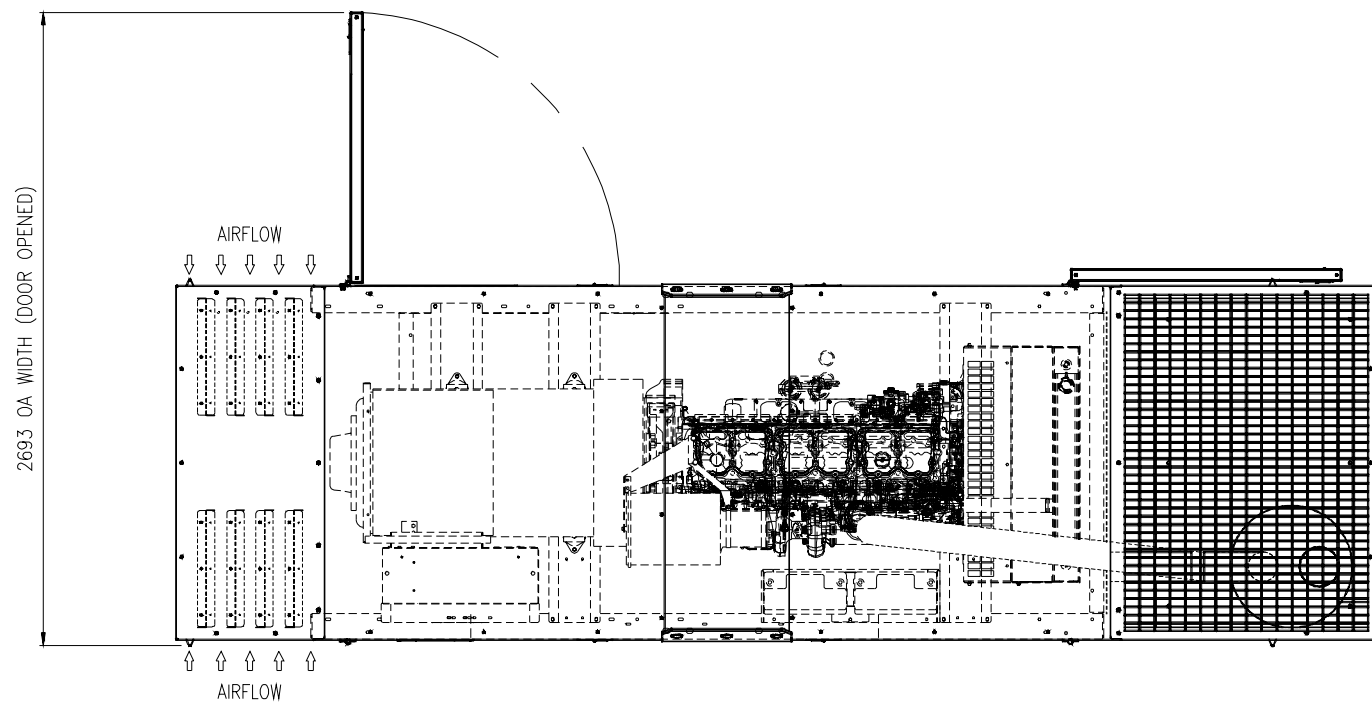
$$\frac{kW \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{kW \times \text{Single Phase Factor} \times 1000}{\text{Voltage}}$$

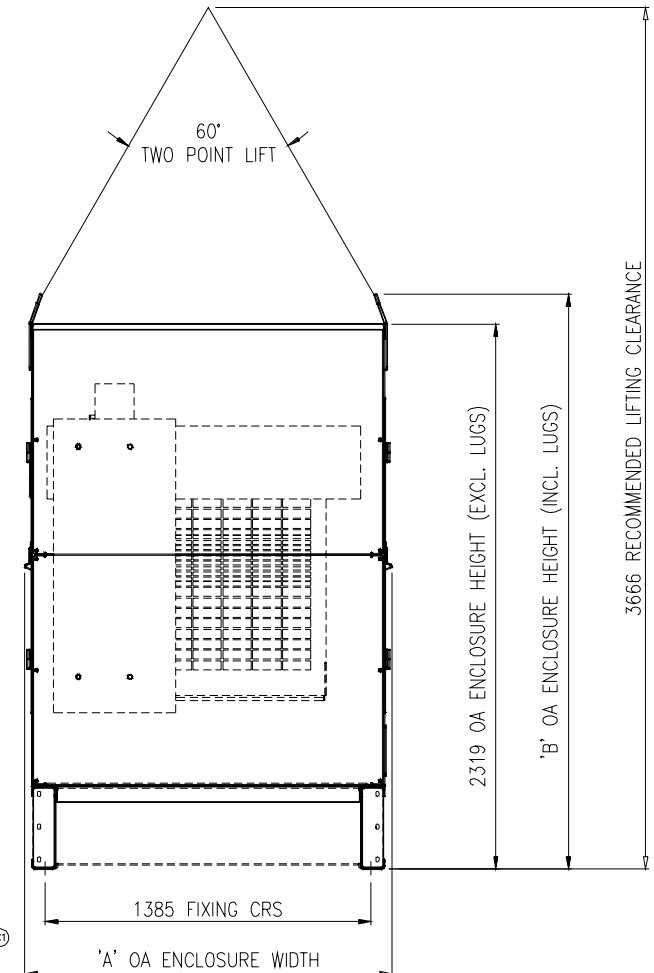
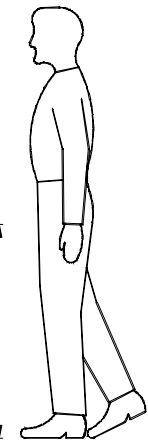
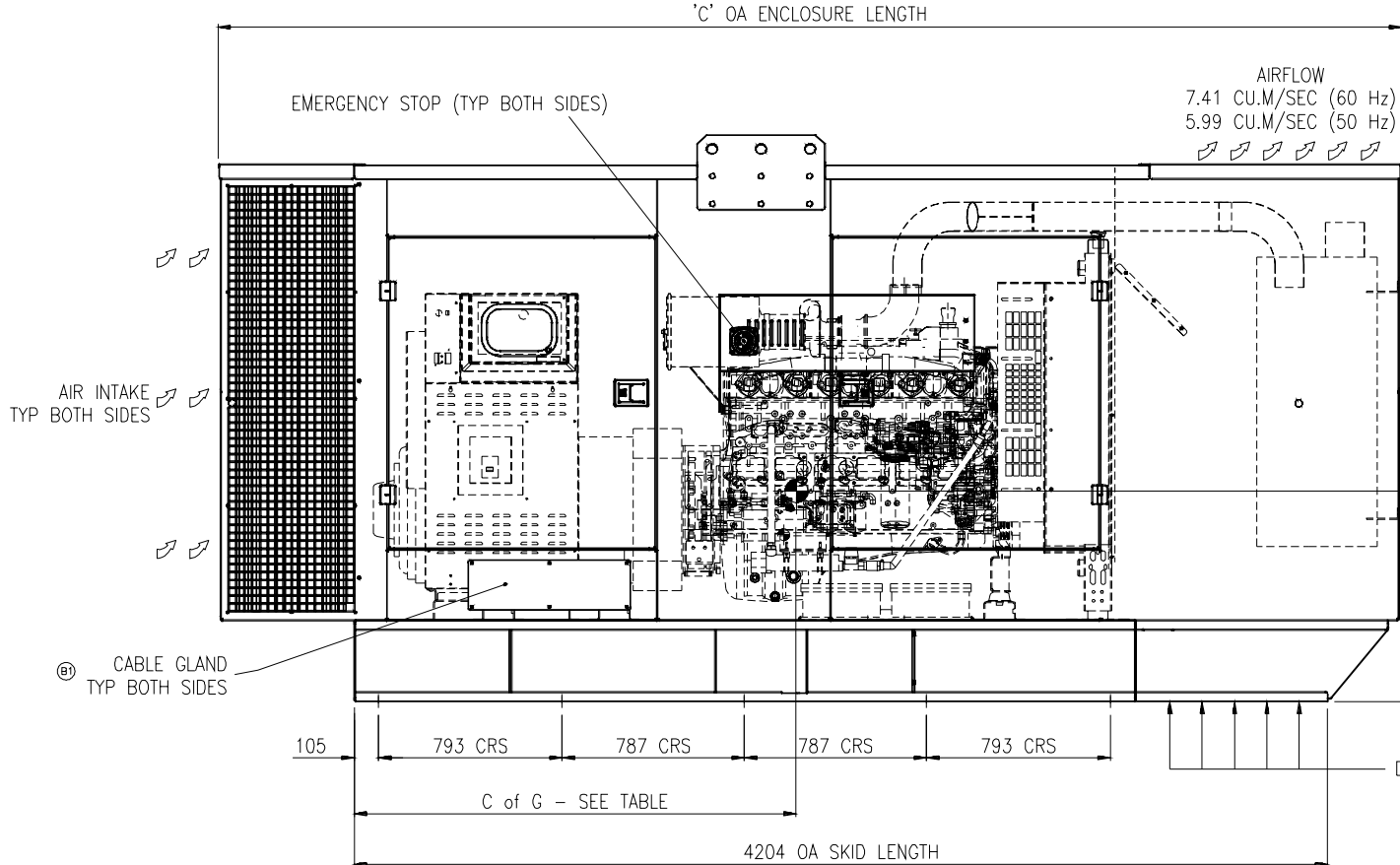
See your distributor for more information.

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INSTALLATION NOTES:

- PLEASE ALLOW THE FOLLOWING PARAMETER CLEARANCES AROUND THE ENCLOSURE:
SIDE (INCL. OPEN DOORS): 500mm
ABOVE THE CANOPY: 1000mm
- BEDFRAME FIXING POINTS REQUIRE AN M20 FASTENING ARRANGEMENT
- PLEASE REFER TO MANUAL FOR TWO-POINT LIFTING INSTRUCTIONS
- TERMS AND CONDITIONS CAN BE FOUND AT THE FOLLOWING:-
www.cumminspower.com/terms



MODEL	ENGINE	DRY WEIGHT (kg)	WET WEIGHT (kg)	WET WEIGHT WITH FUEL(kg)	OIL SUMP CAPACITY (L)	DIMENSIONS (mm)				C of G (mm)
						A	B	C	D	
C300D5 & C275D6	NT855G6	4664	4718	5441	14	1563	2447	5110	819	1579
C350D5 & C300D6	NT855G6	4744	4798	5576	14	1563	2447	5110	819	1565
C400D5 & C350D6	NTA855G4 & NTA855G3	4921	4975	5698	14	1563	2447	5110	820	1556
C440D5 & C400D6	NTA855G7 & NTA855G5	5041	5095	5818	14	1563	2447	5110	820	1527

TOLERANCE UNLESS OTHERWISE SPECIFIED	SMALL TO ENGR	NAME	DATE
±0.08	±0.13	J. JONES	13/07/2004
±0.13	±0.25	A. ANDREWS	12/10/2004
±0.25	±0.50	M. BARRENT	12/10/2004

AutoCAD DO NOT SCALE PRINT ANGLE TOL. ±1.0° SCALE: 1:15

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ENCLOSURE OUTLINE

0500-4074

PGK

C300

SHEET 1 of 1