

Generator set data sheet

Model: C170 D5
Frequency: 50
Fuel type: Diesel

Spec sheet:	SS28-CPGK
Noise data sheet (open/enclosed):	ND50-CS550
Airflow data sheet:	AF50-550
Derate data sheet (open/enclosed):	TBD
Transient data sheet:	TD50-550

Fuel consumption	Standby				Prime			
	kVA (kW)				kVA (kW)			
Ratings	170 (136)				155 (124)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	4.0	6.1	8.3	10.5	3.2	5.3	8.1	9.5
L/hr	15.20	23.20	31.50	39.60	12.10	20.00	30.60	36.00

Engine	Standby rating	Prime rating
Engine manufacturer	TCL	
Engine model	6BTAA5.9-G7	
Configuration	4-cycle, In-line, 6-cylinder,	
Aspiration	Turbocharged and charged air cooled	
Gross engine power output, kWm	160	145
BMEP at set rated load, kPa	2178	1972
Bore, mm	102	
Stroke, mm	120	
Rated speed, rpm	1500	
Piston speed, m/s	6	
Compression ratio	16.5 :1	
Lube oil capacity, L	16.4	
Overspeed limit, rpm	1800	
Regenerative power, kW	NA	
Governor type	Electronic	
Starting voltage	12V	

Fuel flow	
Maximum fuel flow, L/hr	45
Maximum fuel inlet restriction, mm Hg	101 / 203 (clean / dirty filter)
Maximum fuel inlet temperature, °C	71

Air	Standby rating	Prime rating
Combustion air, m ³ /min	12.43	11.81
Maximum air cleaner restriction, kPa	4	

Exhaust

Exhaust gas flow at set rated load, m ³ /min	32.37	31.12
Exhaust gas temperature, °C	533	517
Maximum exhaust back pressure, kPa	10.25	

Standard set-mounted radiator cooling

Ambient design, °C	50	
Fan load, kW _m	9.8	
Coolant capacity (with radiator), L	22.1	
Cooling system air flow, m ³ /sec @ 12.7 mmH ₂ O	3.77	
Total heat rejection, Btu/min	3128	2900
Maximum cooling air flow static restriction mm H ₂ O	12.7	

Weights*

	Open	Enclosed
Unit dry weight kgs	1635	2390
Unit wet weight kgs	1650	2400

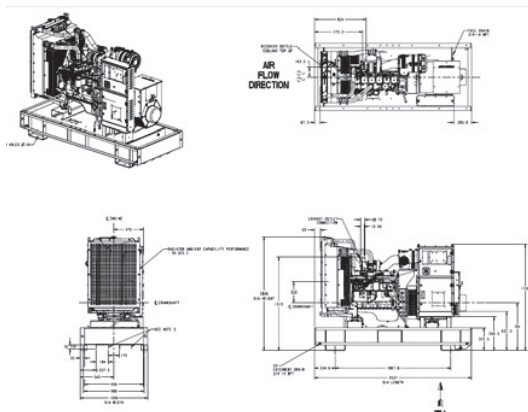
* Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions

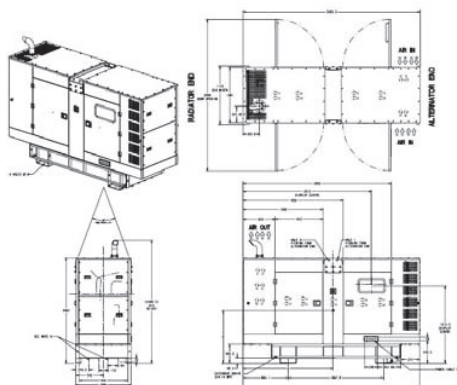
	Length	Width	Height
Standard open set dimensions	2537	1090	1846
Standard enclosed set dimensions	3460	1090	2387

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	163	ESP	UCI274F	190-208 & 380 - 416 V
WYE	150	ESP	UCI274G	190-208 & 380 - 416 V
WYE	125	PRP	UCI274F	190-208 & 380 - 416 V
WYE	105	PRP	UCI274G	190-208 & 380 - 416 V

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.

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

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

See your distributor for more information.

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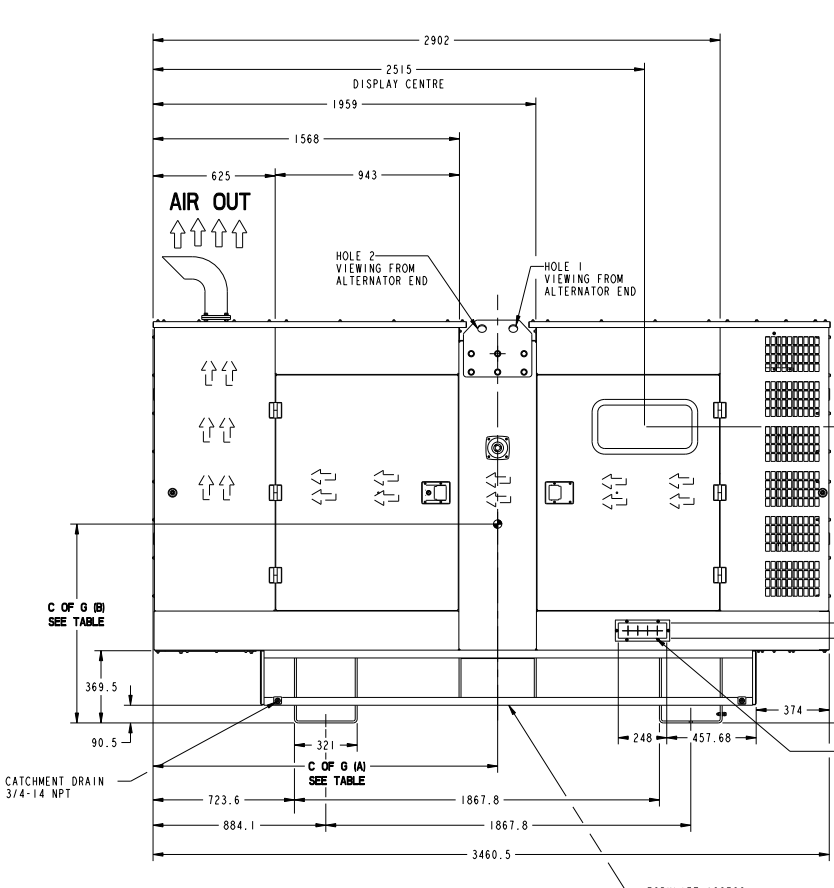
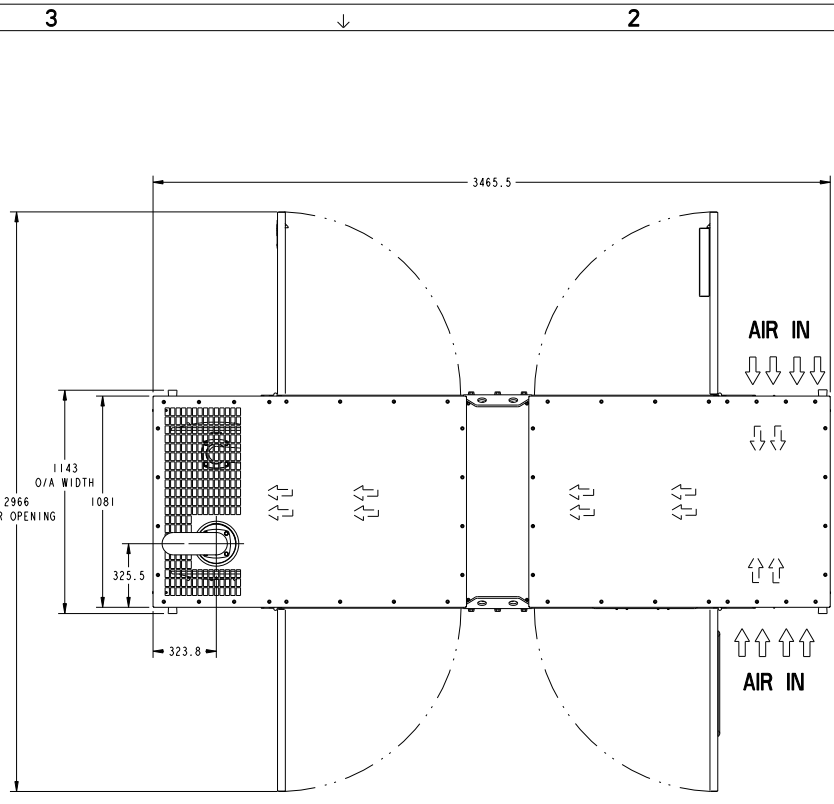
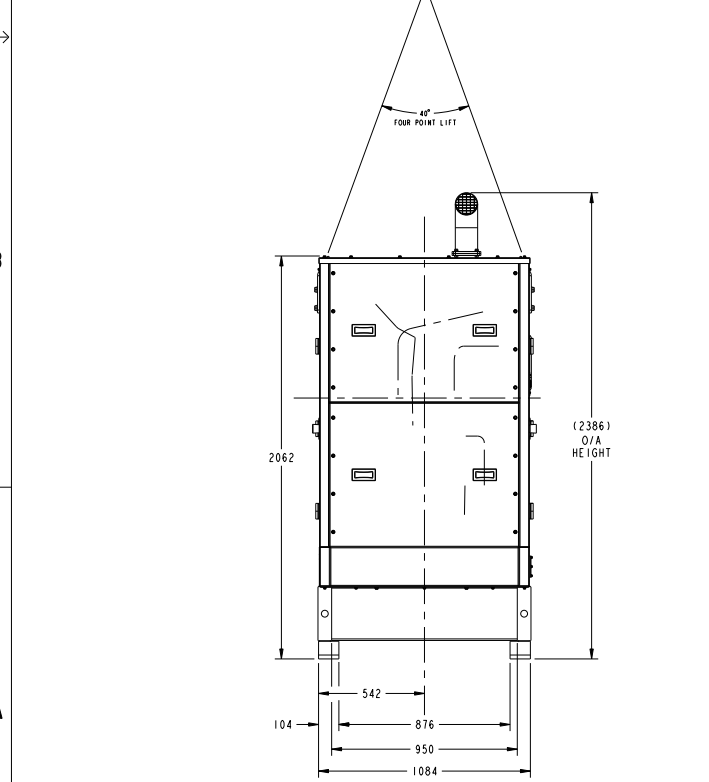
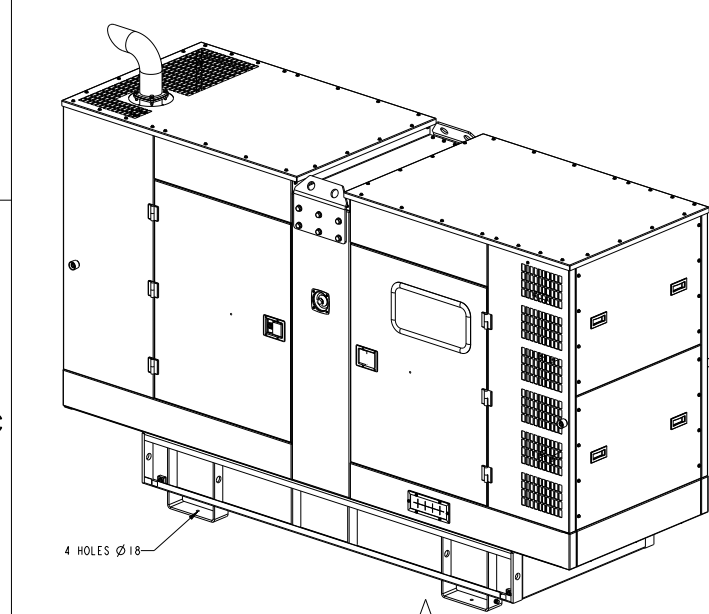
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 EMERD-5836a-EN (11/13)

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WEIGHT DATA (APPROX)

S/N	GENSET MODEL	ENGINE MODEL	ALTERNATOR FRAME	GENSET DRY WEIGHT (Kg)	GENSET WET WEIGHT (Kg)	CG LOCATION		LOADING MATRIX	SOUND POWER LEVELS (db) @ 75% LOAD FACTOR
						DIM A	DIM B		
1	C13506	6BTAAS.9-G6	UC1274E	2137	2176	1625.8	774	HOLE 1 VIEWING FROM ALTERNATOR END	97
			UC1274F	2189	2228				
2	C15005	6BTAAS.9-G6	UC1274E	2137	2176	1630	760.9	HOLE 1 VIEWING FROM ALTERNATOR END	97
			UC1274F	2189	2228				
3	C17005	6BTAAS.9-G7	UC1274F	2189	2228	1630	773.9	HOLE 1 VIEWING FROM ALTERNATOR END	97
			UC1274G	2235	2274				



REV. NO.	DATE	DESCRIPTION	BY	APP'D.	SITE
ECO-142951	01	ZONE B1, ADD NOTE 'FUEL TANK CAPACITY.....'	SHI SC B, THAKUR	29AUG14	
	2	ZONE A4, ADD DIM 104	SHI SC B, THAKUR	29AUG14	
	3	ZONE A4, ADD DIM 876	SHI SC B, THAKUR	29AUG14	
	4	ZONE A3, ADD DIM 301	SHI SC B, THAKUR	29AUG14	
	5	ZONE A3, ADD DIM 123.6	SHI SC B, THAKUR	29AUG14	
	6	ZONE A2, ADD DIM 1867.8	SHI SC B, THAKUR	29AUG14	

- NOTES:-
1. APPLY DRY TORQUE UNLESS AND OTHERWISE SPECIFIED
 2. PART 0800-3017-56 IS TO BE TORQUED TO 55 Nm (41 ft-lbs)
 3. PART 0800-3017-38 & 0800-3017-40 IS TO BE TORQUED TO 25 Nm (18 ft-lbs)
 4. THE DISTANCE BETWEEN PART 0526-2306 AND 0403-6561-02 IS TO REPRESENT WHERE THE ALTERNATOR FOOT WILL BE
 5. 0337-3741-06 WILL CONNECT TO THE ELECTRICAL STRAP ON THE REAR OF CONTROL BOX.
 6. FUEL TANK CAPACITY 448 LTRS APPROX.

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS

DO NOT SCALE PRINT

ANG TOL: ± 0.5

SCALE: 3/32

DESIGNED BY: S. KURAI

CHECKED BY: S. KURAI

APP'D. A. DANTALE

DATE: 16 JUL 13

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6B URJA 11

CUMMINS POWER GENERATION

OUTLINE, GENSET

A045B515

1 of 1

Part A045B515 B

Description	Legacy Name	External Regulations	Application Status	Release Phase Code	Security Classification	Alternates
OUTLINE,GENSET	A045B515	None	Production Only	Production	Proprietary	

Part Specifications :A045B515 B

Name	Description	Legacy Name
A030B356	SPECIFICATION,MATERIAL	CES10903
A045B516	DRAWING,ENGINEERING	A045B516