#### **Generator set data sheet**



Model: C44 D5e (B3.3)

Frequency: 50 Hz
Fuel type: Diesel

Spec sheet:	S-6282-EN
Noise data sheet (open):	MSP-3025
Airflow data sheet:	MCP-2021

	Standby			Prime	Prime			
<b>Fuel consumption</b>	kVA (kW)			kVA (kW)				
Ratings	44 (35)		40 (32)	40 (32)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
US gph	1.1	1.5	2.3	2.7	1.0	1.4	2.2	2.7
L/hr	4.0	5.7	8.8	10.4	3.9	5.4	8.4	10.2

Engine	Standby rating	Prime rating	
Engine manufacturer	Cummins		
Engine model	4BTAA3.3-G14		
Configuration	In-line; 4 cylinder diesel	_	
Aspiration	Turbocharged and after-	-cooled	
Gross engine power output, kWm	62.6	58	
BMEP at set rated load, kPa	1538	1428	
Bore, mm	95	_	
Stroke, mm	115		
Rated speed, rpm	1500		
Piston speed, m/s	5.75		
Compression ratio	19:1		
Lube oil capacity, L	8		
Overspeed limit, rpm	1650		
Regenerative power, kW	N/A		
Governor type	Mechanical as standard		
Starting voltage	12 V DC		

## **Fuel flow**

Maximum fuel flow, L/hr	45
Maximum fuel inlet restriction, mm Hg (clean filter)	101.6
Maximum fuel inlet temperature, °C	70

Air	Standby rating	Prime rating
Combustion air, m³/min	4.92	4.47
Maximum air cleaner restriction, kPa	2.5	
Exhaust		
Exhaust gas flow at set rated load, m³/min	13.02	11.63

10

Standard set-mounted radiator cooling

Maximum exhaust back pressure, kPa

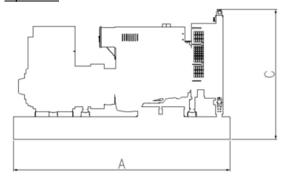
otaniaara oot mountou radiator ooomig				
Ambient design, °C @ 12.7mm H <sub>2</sub> O	55			
Fan load, kW <sub>m</sub>	2 +/- 1			
Coolant capacity (with radiator), L	10.3			
Cooling system air flow, m <sup>3</sup> /sec @ 12.7 mm H <sub>2</sub> O	1.611			
Total heat rejection, Btu/min	ction, Btu/min 1877 1734			
Maximum cooling air flow static restriction, mm H <sub>2</sub> O	25.4			

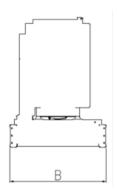
Weights	Open	Enclosed
Unit dry weight, kg (Standard skid)	922	1236
Unit wet weight, kg (Standard skid)	1010	1414
Unit dry weight, kg (optional skid)	1140	1543
Unit wet weight, kg (optional skid)	1228	1631

Dimensions	Length	Width	Height
Open set dimensions (standard skid)	2050	967	1510
Enclosed set dimensions (standard skid)	2270	975	1920
Open set dimensions (optional skid)	2270	967	1720
Enclosed set dimensions (optional skid)	2270	975	2115

#### **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 <sup>1</sup>	Temp rise <sup>o</sup> C	Duty <sup>2</sup>	Alternator	Voltage
Wye, 3-phase	163/125	S/P	UCI22 4C	380-415
Wye, 3-phase	150/105	S/P	UCI22 4D	380-415

## **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 and DIN 6271.	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 and DIN 6271.	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 and DIN 6271.

## Formulas for calculating full load currents:

Three phase output Single phase output

kW x 1000 kW x SinglePhaseFactor x 1000

Voltage x 1.73 x 0.8 Voltage

For more information contact your local Cummins distributor or visit power.cummins.com

