Generator set data sheet



Model: C35 D6 (X-Series)

Frequency: 60 Hz
Fuel type: Diesel

Spec sheet:	SS23-CPGK
Noise data sheet (open/enclosed):	ND60-OS550/ND60-CS550
Airflow data sheet:	AF60-550
Derate data sheet (open/enclosed):	DD50-OS550/DD60-CS550
Transient data sheet:	TD60-550

	Standb	Standby kW (kVA)			Prime	Prime		
Fuel consumption	kW (kV				kW (kV	'A)		
Ratings	35 (43.	3)			32 (40)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
gph	1.0	1.5	2.2	3.2	1.0	1.1	2.0	2.8
L/hr	3.8	5.8	8.3	12.2	3.7	4	7.6	10.5

Engine	Standby rating	Prime rating		
Engine manufacturer	Cummins			
Engine model	X3.3 G2	X3.3 G2		
Configuration	4 cycle; in-line; 4 cylind	4 cycle; in-line; 4 cylinder diesel		
Aspiration	Naturally aspirated			
Gross engine power output, kWm	42	36		
BMEP at set rated load, kPa	839.9	719.9		
Bore, mm	91.4			
Stroke, mm	127	127		
Rated speed, rpm	1800	1800		
Piston speed, m/s	7.65			
Compression ratio	18.5:2			
Lube oil capacity, L	6.8			
Overspeed limit, rpm	2070			
Regenerative power, kW	4	4		
Governor type	Mechanical	Mechanical		
Starting voltage	12 Volts DC			

Fuel flow

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Maximum fuel flow, L/hr	40
Maximum fuel inlet restriction, mm Hg	73.66
Maximum fuel inlet temperature, °C	60

Air	Standby rating	Prime rating
Combustion air, m ³ /min	2.46	2.46
Maximum air cleaner restriction, kPa	2.5	

Exhaust

Exhaust gas flow at set rated load, m ³ /min	2.29	2.29
Exhaust gas temperature, °C	650	630
Maximum exhaust back pressure, kPa	4.75	

Standard set-mounted radiator cooling

Ambient design, °C	50	
Fan load, kW _m	1.2	
Coolant capacity (with radiator), L	26	
Cooling system air flow, m ³ /sec @ 12.7 mm H ₂ O	106	
Total heat rejection, Btu/min	1879	1765
Maximum cooling air flow static restriction, mm H ₂ O	TBD	

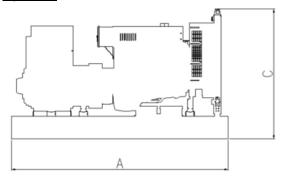
Weights*	Open	Enclosed
Unit dry weight, kgs	697	1057
Unit wet weight, kgs	872	1232

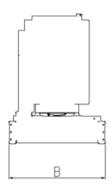
^{*} Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions	Length	Width	Height
Standard open set dimensions, mm	1753	930	1238
Enclosed set standard dimensions, mm	2253	969	1616

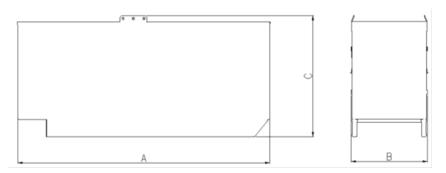
Genset outline

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	Temp rise ^o C	Duty	Alternator	Voltage
Wye, 3-phase	150/125	S/P	PI144H	440-480 V
Wye, 3-phase	125/105	S/P	PI144J	416-480 V
Wye, 1-phase	105/80	S/P	PI144J	220-240 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 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

