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Generator set data sheet

Model: Fuel type: Document No.: C20 D5R Diesel EMERD-6049-EN

	Standby kVA (kW)			Prime	Prime			
Fuel consumption 50 Hz				kVA (kV	kVA (kW)			
Ratings	22 (17)		20 (16)	20 (16)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full
L/hr	2.7	3.5	4.5	5.9	2.6	3.4	4.3	5.2

Engine (EU stage IIIA)	Standby rating	Prime rating	
Gross engine power output 50 Hz, kWm	22	18.8	
BMEP at set rated load 50 Hz, kPa	531	454	
Engine manufacturer	Kubota		
Engine model	V2403-M-E3BG		
Configuration	4 cycle; in-line; 4 cylinder		
Aspiration	Natural		
Bore, mm	87		
Stroke, mm115	102.4		
Rated speed 50 Hz, rpm	1500		
Piston speed 50 Hz, m/s	5.12		
Compression ratio	23:2		
Lube oil capacity, L	9.5		
High idle speed 50 Hz, rpm	1720		
Overspeed limit 50 Hz, rpm	2120		
Regenerative power 50 Hz, kW	N/A		
Governor type	Electronic governor		

Fuel flow

Maximum fuel flow, L/hr	6.1
Maximum fuel inlet restriction (clean/dirty filter), mm Hg	N/A
Maximum fuel inlet temperature, °C	N/A

Air

Combustion air 50 Hz, m ³ /min	1.58
Maximum air cleaner restriction (clean/dirty filter), kPa	1.9/4.9

Exhaust

Exhaust gas flow at set rated load 50 Hz, m ³ /min	ТВD	ТВD
Exhaust gas temperature 50 Hz, °C	TBD	ТВD
Maximum exhaust back pressure, kPa	7.06	

Standard set-mounted radiator cooling	Standby rating Prime rating		
Ambient design, °C	40	•	
Fan load, kWm 1500 rpm	0.5		
Coolant capacity (with radiator), L	5.6		
Cooling system air flow, m ³ /sec 1500 rpm	0.4		
Total heat rejection, Btu/min 1500 rpm	1451		
Max cooling air restriction, kPa	TBD		

Weights*

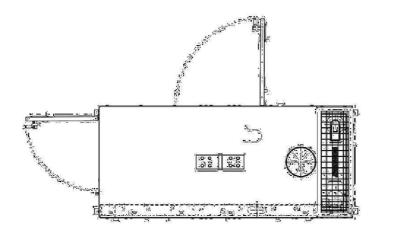
Weights*	
Unit dry weight kgs	857
Unit wet weight kgs	1036

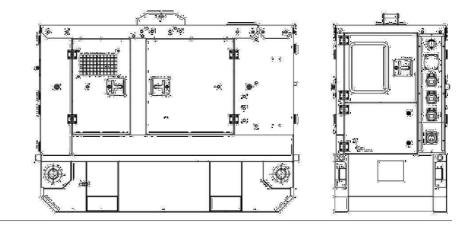
* Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions	Length	Width	Height
Enclosed set standard dimensions, m	1.7	0.78	1.25

Genset outline

Enclosed set





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

Alternator data

Alternator	Connection	Temp rise °C	Duty	Voltage 50 Hz, L-L
P144D	Series Star, 3Ph	163/27 / 125/40	Standby/Prime	380, 400, 415

Noise data 50Hz

Enclosed set sound power level, LwA	93 dB
Enclosed set sound pressure level, dB(A) @ 75% PRP, 1m	77
Enclosed set sound pressure level, dB(A) @ 75% PRP, 7m	66

Control options

- Cummins PowerCommand® 1.1 control system
- DSEGenset® DSE7310 auto start control module
- ComAp InteliLite® MRS 16 manual and remote controller

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

Single phase output

kW x 1000 Voltage x 1.73 x 0.8 <u>kW x SinglePhaseFactor x 1000</u> Voltage

See your distributor for more information.

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