

#### » Generator set data sheet

Model: C2000 D5 Frequency: 50 Fuel Type: Diesel

Spec sheet:  Noise data sheet (Open/enclosed):  Airflow data sheet:  Derate data sheet (Open/enclosed):			SS17-CP	SS17-CPGK					
			ND50-08	SHHP/ND50-	CSHHP				
			AF50-HHP						
			DD50-OS	SHHP/DD50-	CSHHP				
Transient data sheet:			RTF						
			•		_				
Standby		•	Prime						
Fuel consumption	kVA (kW	1)	kVA (kW)			)			
Ratings	2063 (16	50)			1875 (15	1875 (1500)			
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	
gph	26.2	44.6	64.2	86.4	24.4	41.1	58.7	78.0	
L/hr	119.0	203.0	292.0	393.0	111.0	187.0	267.0	355.0	
Engine			Standby Rating Prime Rating						
Engine manufacturer			Cummins						
Engine model			QSK60-G3						
Configuration		Cast Iron, 60° V16 Cylinder							
Aspiration		Turbo Charged and Low Temperature After-Cooled							
Gross engine power output, kWm		1789 1614							
BMEP at set rated load, kPa		2386 2158							
Bore, mm			159						
Stroke, mm			190						
Rated speed, rpm			1500						
Piston speed, m/s			9.5						
Compression ratio			14.5:1						
Lube oil capacity, L			Stdby 280 Prime/Cont 397						
Overspeed limit, rpm			1850 ±50						
Regenerative power, kW			146						
Governor type			Electronic						
Starting voltage		24V Volts DC							
Fuel flow									
Maximum fuel flow, L/hr			1893						
Maximum fuel inlet restriction, mm Hg			203						
Maximum fuel inlet temperature (°C)			71						

Air	Standby Rating	Prime Rating
Combustion air, m³/min	139.00	125.00
Maximum air cleaner restriction, kPa	6.2	·
Exhaust		
Exhaust gas flow at set rated load, m³/min	320.0	295.0
Exhaust gas temperature, °C	477	452
Maximum exhaust back pressure, kPa	6.7	<del>-</del>
Ambient design, °C	40	
Fan load, KW <sub>m</sub>	29.1	
Coolant capacity (with radiator), L	454	
Cooling system air flow, m3/sec @ 12.7mmH2O	26.4	
Total heat rejection, BTU/min	RTF	RTF
Maximum cooling air flow static restriction mmH2O	0.12	·
	<del></del>	
Weights*	Open	Enclosed

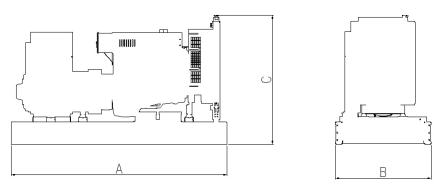
Weights*	Open	Enclosed
Unit dry weight kgs	14649	N/A
Unit wet weight kgs	15152	N/A

<sup>\*</sup> Weights represent a set with standard features. See outline drawing for weights of other configurations

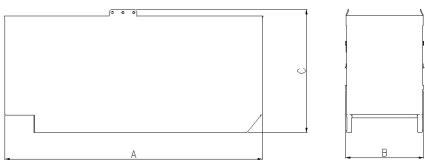
Dimensions	Length	Width	Height
Standard open set dimensions	6175.1	2286	2537.2
Enclosed set standard dimensions	N/A	N/A	N/A

#### **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 °C	Duty <sup>2</sup>	Alternator	Voltage
Wye, 3 Phase	105/80C	S/P	MVSI804R1	1905/3300V
Wye, 3 Phase	125/80C	S/P/C	HVSI804R1	6300-6600V
Wye, 3 Phase	125/80C	S/P/C	HVSI804R1	1905/3300V
Wye, 3 Phase	125/105C	S/P	RTF	6600V
				#N/A

# **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 Single phase output

kWx1000 kWxSinglePhaseFactorx1000 Voltage Voltagex1.73x0.8

# See your distributor for more information.

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