

Technical data Diesel Generator Set

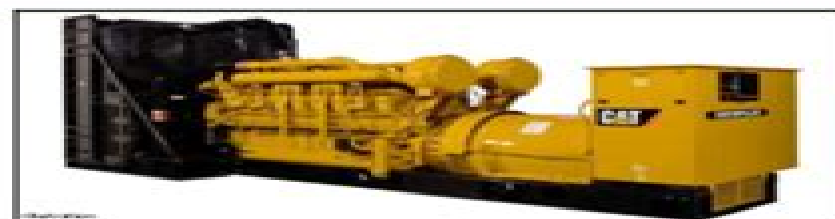
CAT 3516B-2250

Output Ratings with Radiaitor	D4N/ISO 3046	
Combustion Strategy	Low Emission, 60 °C A/C	
Generating set Model	Prime	Stand by
400V, 50Hz, power factor 0.8	2'000 kVA 1'500 kW	2'250 kVA 1'500 kW
Feature Code	5360490	
Performance No.	DMB316	DMB355

Diesel Engine	
Brand	Caterpillar
Type	3516B-5A
No. of Cylinders / Alignment	16 / V
Cycle	4-Stroke
Cooling Method	Water-cooled
Fuel	Diesel
Speed	1'500 rpm
Bore	170.00 mm
Stroke	190.00 mm
Displacement	6.9.00 L
Compression Ratio	14.0:1
Aspiration	Turbo after-cooler
Fuel System	Electronic unit injection
Base Tank Capacity	n.a.
Jacket Water Heaters	220 V / 9 kW
Starting Motor	24 V / 74 kW
Battery Type	150-5000
Quantity	4
Capacity per Battery / total	145Ah - 12 V / 290 Ah - 24 V

Generator	
Brand	Caterpillar
Type / Frame	3547
Excitation	Permanent Magnet or ASEP
Pitch	0.6667
Number of Poles	4
Number of bearings	Single bearing
Number of leads	6
Insulation	Class H
IP Rating	IP23
Nominal Speed	1'500 rpm
Over speed capability	150 %
Waveform Deviation (Line to Line)	2 %
Voltage Regulator	3 Phase sensing with electric load
Voltage regulation	Less than 1 % (steady state) Less than 3 % (no load to full load)
Telephone Influence Factor (TIF)	Less than 50
Total Harmonic Distortion (THD)	Less than 5%
Circuit Breaker, load mounted near	47'000 A / 50 kA
Typical Cabling: TM-C (Prime)	8 x 4 x 240 mm ² + 4 x 3 x 240 mm ²
Typical Cabling: TM-C (Standby)	8 x 4 x 240 mm ² + 4 x 3 x 240 mm ²

Package Dimensions	
Engine:	Length x Width x Height
	3'292 x 1'930 x 1'511 mm
	Weight
	2'935 kg
Generator:	Length x Width x Height
	2'061 x 1'380 x 2'759 mm
	Weight
	3'945 kg
Radiator:	Length x Width x Height
	1'900 x 2'588 x 3'053 mm
	Dry Weight
	854 kg
Complete:	Length x Width x Height
	6'264 x 2'588 x 3'053 mm
	Weight
	13'264 kg



Technical Data	Prime	Standby
Fuel Consumption		
100% load with Fan	412.2 l/hr	469.8 l/hr
75% load with Fan	311.4 l/hr	348.5 l/hr
50% load with Fan	218.0 l/hr	240.8 l/hr
Oil consumption 75% load	0.247 l/hr	0.277 l/hr
Cooling Systems		
Engine coolant Capacity with Radiator / expansion Tank		382.0 L
Engine coolant Capacity Inlet Air		233.0 L
Combustion Air inlet flow rate	122.9 m ³ /min	135.2 m ³ /min
Exhaust System		
Exhaust stack gas Temperature	517.0 °C	538.5 °C
Exhaust gas flow rate	139.4 m ³ /min	153.9 m ³ /min
Exhaust System backpressure max.		6.2 kPa
Heat Rejection		
Heat Rejection to coolant (Jacket)	674 kW	742 kW
Heat Rejection to exhaust (Jacket)	1'580 kW	1'829 kW
Heat Rejection to after-cooler	26.2 kW	34.5 kW
Heat Rejection to Atmosphere from Engine	158 kW	166 kW
Heat Rejection to Atmosphere from Generator	58.4 kW	80.9 kW
Lube System		
Supply refill with Filter		401.3 L
Exhaust Emission (Nominal Data): Potential Site Variation possible		
NOx mg/kwh ¹	2'000	2'000
CO mg/kwh ¹	125	145
HC mg/kwh ¹	75	60
Part Matter mg/kwh ¹	18	17
Performance		
Motor starting capability @ 50%		5'365 kVA
Voltage Dip		
Rated Current	2'886 A	3'247.6 A
Short-Circuit Current		3 x 3600

Radiator	
Radiator Type	44.0 CTD
Design Temperature	38 °C
Radiator coolant Capacity	349.0 L
Air Flow @ 120 Pa	1'543 m ³ /min
Air Flow @ 380 Pa	1'458 m ³ /min

Sound pressure level LPA, @ 75% Load @ 7m										
dB	Hz	63	125	250	500	1000	2000	4000	8000	Overall dB(A)
Machine (50%)	90	100	105	92	88	87	85	85	85	98
Exhaust (50%)	96	100	105	92	88	87	85	85	85	100
Machine (Prime)	90	100	105	92	88	87	85	85	85	98
Exhaust (Prime)	96	106	100	91	87	87	85	85	85	99

Caterpillar 3516b Manual

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