

Technical data Diesel Generator Set

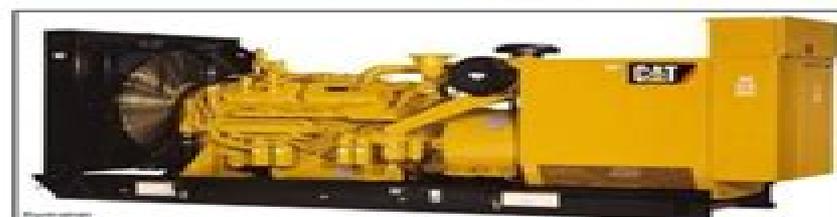
CAT 3412-900

Output Ratings with Radiator	DIN/ISO 3046	
Combustion Strategy	Low BSFC, 93 °C A/C	
Generator set Model	Prime	Standby
400V, 50Hz, power factor 0.8	810 kVA	900 kVA
	668 kW	720 kW
Feature Code	4120488	
Performance No.	DM12908	DM12909

Diesel Engine	
Brand	Caterpillar
Type	3412C TA
No. of Cylinders / Alignment	3 / V
Cycle	4-Stroke
Cooling Method	Water-cooled
Fuel	Diesel
Speed	1500 rpm
Bore	130.20 mm
Stroke	153.40 mm
Displacement	17.02 L
Compression Ratio	13.0:1
Aspiration	Turbo after cooler
Fuel System	Pump and Lines
Base Tank Capacity	"Optional" 1200 L
Jet Set Water System	220 V / 4 kW
Starting Motor	24 V / 7 kW
Battery Type	25 D-700
Quantity	2
Capacity per Battery / total	245 Ah - 24 V / 245 Ah - 24 V

Generator	
Brand	Caterpillar
Type / Frame	598
Excitation	Permanent Magnet or A/RP
Pitch	0.8-647
Number of Poles	4
Number of Bearings	Single Bearing
Number of Leads	3
Insulation	Class H
IP Rating	IP22
Nominal Speed	1500 rpm
Over Speed capability	100 %
Wave form Deviation (Line to Line)	Less than 5 %
Voltage Regulator	Electronic
Voltage regulation	Less than 2.5% (steady state) Less than 3.1% (no load to full load)
Telephone Influence Factor (TIF)	Less than 50
Total Harmonic Distortion (THD)	Less than 5%
CIR: Spot manual, fixed mount rear	1200 A / 50 kA
Typical Cableing: TH-C (Prime)	3 x 4 x 185 mm ² + 2 x 2 x 185 mm ²
Typical Cableing: TH-C (Standby)	3 x 4 x 185 mm ² + 2 x 2 x 185 mm ²

Package Dimensions		
Engine:	Length x Width x Height	17937 x 17266 x 17637 mm
	Weight	37927.0 kg
Generator:	Length x Width x Height	17944 x 17044 x 17612 mm
	Weight	27323 kg
Radiator:	Length x Width x Height	17394 x 17742 x 17987 mm
	Dry Weight	3227 kg
Complete:	Length x Width x Height	47485 x 17742x 17987 mm
	Weight	49775 kg



Technical Data	Prime	Standby
Fuel Consumption		
100% load with fan	171.7 L/hr	191.7 L/hr
75% load with fan	130.4 L/hr	143.7 L/hr
50% load with fan	90.8 L/hr	99.8 L/hr
Oil consumption 75% load	0.170 L/hr	0.224 L/hr
Cooling System		
Engine coolant Capacity with Radiator / expansion Tank		149.0 L
Engine coolant Capacity		59.0 L
Inlet Air		
Combustion Air inlet flow rate	48.8 m ³ /min	54.7 m ³ /min
Exhaust System		
Exhaust inlet gas Temperature	529.4 °C	544.9 °C
Exhaust gas flow rate	139.3 m ³ /min	157.3 m ³ /min
Exhaust System backpressure max.		6.7 kPa
Heat Rejection		
Heat Rejection to coolant (total)	36.6 kW	42.9 kW
Heat Rejection to exhaust (total)	637 kW	721 kW
Heat Rejection to after cooler	8.6 kW	11.2 kW
Heat Rejection to Atmosphere from Engine	308 kW	338 kW
Heat Rejection to Atmosphere from Generator	29.8 kW	33.8 kW
Lube System		
Sump refill with filter		139.0 L
Exhaust Emission (Nominal Data); Potential Site Variation possible		
NOx mg/kWh	2792.4	3170.4
CO mg/kWh	193.8	423.4
HC mg/kWh	1.227	290.8
Part Matter mg/kWh	45.9	49.9
Generator		
Motor starting capability @ 30%		1429 kVA
Voltage Dip		
Rated Current	17489.1 A	17299.0 A
Short-Circuit Current		3 x I _{sc}

Radiator	
Radiator Type	23.4 CT
Design Temperature	50 °C
Radiator coolant Capacity	95.0 L
Air flow @ 1.00 Pa	117.6 m ³ /min
Air flow @ 1.80 Pa	115.2 m ³ /min

Sound pressure Level LPA @ 75% Load @ 7m										
dB	Hz	63	125	250	500	1000	2000	4000	8000	Overall dBA
Max to site (Dry)		92	90	91	94	88	85	77	68	91
Exhaust (Dry)		93	90	92	92	89	86	87	79	90
Max to site (Prime)		91	88	89	89	86	85	77	68	91
Exhaust (Prime)		92	89	90	91	88	85	86	78	94

3412sta Cat Engine Manual

SA Adler



3412sta Cat Engine Manual:

Unveiling the Magic of Words: A Review of "**3412sta Cat Engine Manual**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**3412sta Cat Engine Manual**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Table of Contents 3412sta Cat Engine Manual

1. Understanding the eBook 3412sta Cat Engine Manual
 - The Rise of Digital Reading 3412sta Cat Engine Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying 3412sta Cat Engine Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 3412sta Cat Engine Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from 3412sta Cat Engine Manual
 - Personalized Recommendations
 - 3412sta Cat Engine Manual User Reviews and Ratings

- 3412sta Cat Engine Manual and Bestseller Lists
- 5. Accessing 3412sta Cat Engine Manual Free and Paid eBooks
 - 3412sta Cat Engine Manual Public Domain eBooks
 - 3412sta Cat Engine Manual eBook Subscription Services
 - 3412sta Cat Engine Manual Budget-Friendly Options
- 6. Navigating 3412sta Cat Engine Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - 3412sta Cat Engine Manual Compatibility with Devices
 - 3412sta Cat Engine Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 3412sta Cat Engine Manual
 - Highlighting and Note-Taking 3412sta Cat Engine Manual
 - Interactive Elements 3412sta Cat Engine Manual
- 8. Staying Engaged with 3412sta Cat Engine Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 3412sta Cat Engine Manual
- 9. Balancing eBooks and Physical Books 3412sta Cat Engine Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 3412sta Cat Engine Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 3412sta Cat Engine Manual
 - Setting Reading Goals 3412sta Cat Engine Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 3412sta Cat Engine Manual
 - Fact-Checking eBook Content of 3412sta Cat Engine Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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