

## 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
	648 kW	720 kW
Feature Code	4120488	
Performance No.	DM12908	DM12909

<b>Diesel Engine</b>	
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
Jetted 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

<b>Generator</b>	
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 <sup>2</sup> + 2 x 2 x 185 mm <sup>2</sup>
Typical Cableing: TH-C (Standby)	3 x 4 x 185 mm <sup>2</sup> + 2 x 2 x 185 mm <sup>2</sup>

<b>Package Dimensions</b>		
Engine:	Length x Width x Height	1'9.37' x 1'2.66' x 1'6.37' mm
	Weight	1727.0 kg
Generator:	Length x Width x Height	1'9.66' x 1'0.66' x 1'6.12' mm
	Weight	2'323 kg
Radiator:	Length x Width x Height	1'3.84' x 1'7.42' x 1'9.87' mm
	Dry Weight	327 kg
Complete:	Length x Width x Height	4'6.85' x 3'7.42' x 3'9.87' mm
	Weight	4975 kg



<b>Technical Data</b>	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 <sup>3</sup> /min	54.7 m <sup>3</sup> /min
Exhaust System		
Exhaust inlet gas Temperature	529.4 °C	544.9 °C
Exhaust gas flow rate	139.3 m <sup>3</sup> /min	157.3 m <sup>3</sup> /min
Exhaust System backpressure max.		6.7 kPa
Heat Rejection		
Heat Rejection to coolant (total)	36.6 kW	42.8 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	1.22.7	290.8
Part Matter mg/kWh	45.9	49.9
Generator		
Motor starting capability @ 30%		1'629 kVA
Voltage Dip		
Rated Current	17189.1 A	17299.0 A
Short-Circuit Current		3 x I <sub>sc</sub>

<b>Radiator</b>	
Radiator Type	23.4 CT
Design Temperature	50 °C
Radiator coolant Capacity	95.0 L
Air flow @ 1.20 Pa	1'17.6 m <sup>3</sup> /min
Air flow @ 1.80 Pa	1'15.2 m <sup>3</sup> /min

<b>Sound pressure Level LPA @ 75% Load @ 7m</b>										
dB	Hz	63	125	250	500	1000	2000	4000	8000	Overall dBA
Max to min (Delay)		9.2	90.0	9.1	9.4	88	85	77	68	91
Exhaust (Delay)		9.3	90	9.2	9.2	89	86	87	79	90
Max to min (Prime)		9.1	88	89	89	88	85	77	68	91
Exhaust (Prime)		9.2	89	9.2	9.2	88	85	88	78	91

# 3412sta Cat Engine Manual

**Thirumalaisamy P.  
Velavancorresponding**



## **3412sta Cat Engine Manual:**

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

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability 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 with 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 to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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