

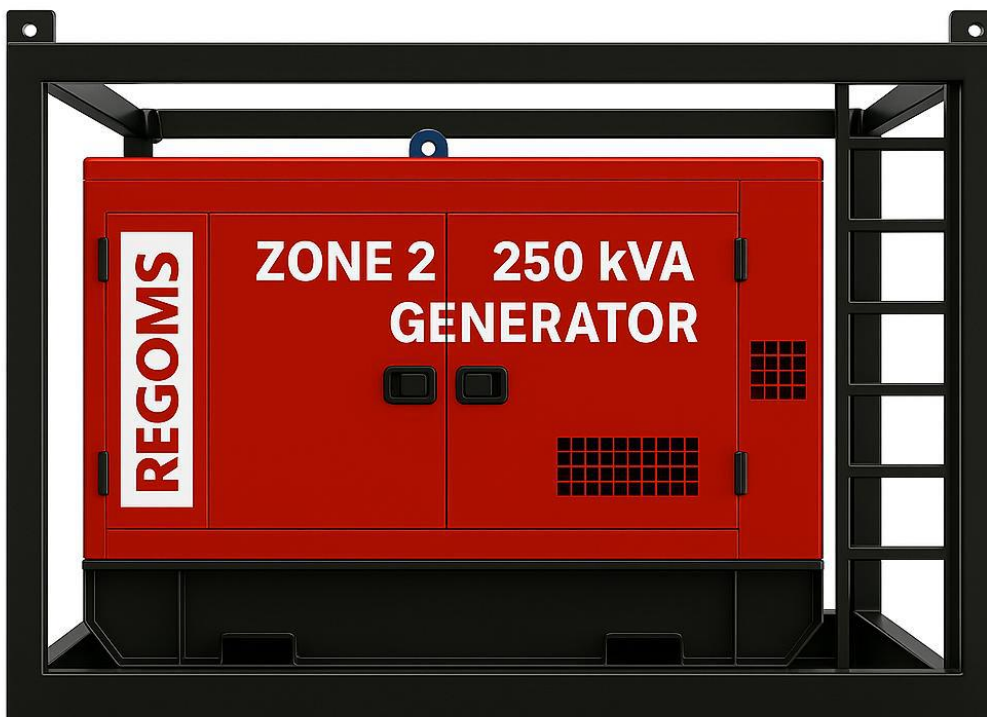


# REGOMS PRODUCT DATASHEET

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ZONE 2 250KVA GENERATOR

## ZONE 2 250KVA GENERATOR



FOR ILLUSTRATION PURPOSE ONLY

The **Zone 2 250kva Generator** is a standalone power generation unit designed for hazardous Zone 2 areas and is ATEX compliant. It is packaged in an LR-certified DNV 2.7-1 offshore lifting skid, ensuring durability and compliance with offshore safety standards. Engineered for reliable performance and ease of maintenance, the generator features multiple access points for servicing. It operates in an ambient temperature range of -25°C to +45°C, making it suitable for varied environmental conditions. With a sound pressure level (SPL) of less than 75dBA at 7m, the Zone 2 250KVA Generator provides low-noise operation while delivering high-efficiency power output. It is equipped with a Cummins diesel engine, REGOMS alternator, and a ComAp MRS16 controller for advanced monitoring and control capabilities.

**Quality & Compliance:**

The Ex product will follow the ATEX standard EN 60079 series and EN 1834 series, and will give a «DECLARATION OF CONFORMITY» which is signed by the manufacturer according to the ATEX Directive 2014/34/UE-ATEX.

GENSET SPECIFICATION		
Service	PRP (1)	PRP (2)
Genset power (KVA)	250	275
Genset power (KW)	200	220
Voltage (V)	415@ 50HZ 460@60HZ	
Frequency	50HZ/60Hz	
Engine speed	1500 R.P.M	
Power factor (cos phi)	0.8	
Phase	Three Phase	

**Note:** This parameter allows for some acceptable deviations.

REGOMS generator sets are compliant with ISO 9001 and CE standard, which include the following directives:

**2006/42/EC Machinery safety. 2006/95/EC Low voltage**

**EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO**

**13849-1:2008, EN 12601: 2010**

**(1) PRP (Prime Power)**

Prime power Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12-hour period. In accordance with ISO 8528, ISO 3046.

**(2) ESP (Standby Power)**

Standby power: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046.

GENSET SPECIFICATION	
Product	250 KVA Zone 2 Explosion-proof Diesel Engine Genset
Standard	EN 60079 series / EN 1834 series / EN 1755 series
Directive	2014/34/UE-ATEX
Genset Model	EADG250-EX
Hazardous Zone	Zone 2
Explosion-proof Mark	Ⓔ II 3G IIB T3 Gc
Certificates	《Declaration of conformity》
Engine brand	Cummins
Engine model	6CTA8.3-G1
Alternator brand	REGOMS
Alternator model	EC250-DG-EX2
Controller brand	ComAp
Controller model	MRS16
Starter Method	Electric & Spring Start
Control Box Enclosure IP	IP65 grade
Silent Canopy IP	IP23 grade

#### Quality Warranty:

One year warranty from the date equipment delivered or 1,000 hours warranty from the beginning time of operating the equipment, and the valid warranty depends on which comes earlier, except vulnerable parts.

WEIGHT & DIMENSION	GENERATOR SET	DNV LIFTING FRAME
Length	4300mm	4755mm
Width	2010mm	2200mm
Height	1900mm	2250mm
Weight	3810KGS	2030KGS

**Engine Specification:**

ENGINE BRAND	CUMMINS
Model	6LTAA9.5-G1
Cylinder number	6
Type	4-Cycle, In-line
Aspiration	Turbocharged, air-cooled
Bore x Stroke (mm)	116Xx148
Compression ratio	16.6:1
Rated speed (RPM)	1500/1800
Displacement (L)	9.5
Rated power (KW)	290@50HZ 280@60HZ
Standby power (KW)	320@50HZ 310@60HZ
Coolant capacity(L)	55.5 (Engine only)
Lubrication capacity (L)	28.1

**Generator Specification:**

ENGINE BRAND	CUMMINS
Model	EC250-DG-EX2
Rated power (KVA/KW)	250/200
Frequency (Hz)	50/60
Power factor (Cos Phi)	0.8
Ambient temp.	-25°C~ +45°C
Rated speed (RPM)	1500/1800
Altitude	≤1000M
Voltage (V)	380@50HZ 480@60HZ
Explosion-proof Mark	Ⅱ3G Ex nA IIB T3 IP55
Certificate	《Declaration of conformity》
Hazardous Zone	Zone 2
IP Grade	IP55

**Controller Specification:**

CONTROLLER BRAND		COMAP	
Model		MRS16	
PRODUCT DESCRIPTION			
<ul style="list-style-type: none"><li>• Single Gen-set controller for Prime-power applications</li><li>• Direct communication with EFI engines</li><li>• Total remote monitoring and control</li></ul>			
KEY FEATURES			
<ul style="list-style-type: none"><li>• 5 languages in the controller &amp; translator functionality</li><li>• 3 levels of password 3 sets of alternative configurations</li><li>• Magnetic pickup</li><li>• ECU support &amp; Tier 4 Final ready</li><li>• STAGE V support</li><li>• Cloud-based monitoring and control via Web Supervisor</li><li>• Geo-Fencing and tracking via Web Supervisor</li><li>• Plug-in module concept for more capabilities</li><li>• (RS232, RS485, Ethernet, GPRS, 4G/LTE, Modbus, SNMP, emails, SMS, I/Os) ➤ 2 slots for plug-in modules</li><li>• CAN modules support</li><li>• Power over USB for controller's adjustment</li><li>• In-built PLC, complemented with a monitoring/debugging tool 8 binary outputs ➤ 8 binary inputs, 4 analog inputs</li><li>• 2 high-current binary outputs</li><li>• Run Hours source selector</li><li>• Activation of outputs based on inputs/power/temperature</li><li>• Real time clock</li><li>• Multipurpose flexible timers (also for rental)</li><li>• Comprehensive history log with up to 350 events</li><li>• Dual Application: control of Gen-set, transfer switch and alternation 3 maintenance timers (counting even under zero)</li><li>• Possibility to disable protections</li><li>• Modbus register mapping possibility</li><li>• Adjustable Main Screen</li><li>• A version for low temperature is also available</li></ul>			

**Major Dispositions:**

Item	Part Name	Ex Mark		Atex Certificate
1	Inlet flame arrestor	Ex d	Ⓔ II 2 GD	AR18ATEX108
2	Inlet shut valve	Ex m	Ⓔ II 2G Ex mb II C T5 Gb	AR16ATEX115X
3	Inlet manifold	Ex d	Ⓔ II 2 GD	AR18ATEX108
4	Water-cooling Exhaust manifold	Ex d	Ⓔ II 2 GD	AR18ATEX108
5	Water-cooling Turbo	Ex d	Ⓔ II 2 GD	AR18ATEX108
6	Exhaust hot exchange	Ex d	Ⓔ II 2 GD	AR18ATEX108
7	Exhaust flame arrestor	Ex d	Ⓔ II 2 GD	AR18ATEX108
8	Spark arrestor	---	Ⓔ II 2 GD	AR16ATEX 110U
9	Crankcase flame arrestor	Ex d	Ⓔ II 2 GD	AR18ATEX108
10	Exhaust flexible pipe	Ex d	Ⓔ II 2 GD	AR18ATEX108
11	Special radiator	--	---	---
12	Ex Alternator	Ex d	Ⓔ II 2G Ex d II B+H2 T4 Gb	AR16ATEX 112
13	Ex Coolant temp. sensor	Ex m	Ⓔ II 2G Ex mb II C T5 Gb	AR16ATEX 116X
14	Ex Exhaust temp. sensor	Ex m	Ⓔ II 2G Ex mb II C T5 Gb	AR16ATEX 116X
15	Ex oil pressure sensor	Ex m	Ⓔ II 2G Ex mb II C T5 Gb	AR16ATEX 116X
16	Ex oil pump solenoid	Ex m	Ⓔ II 2G Ex mb II C T5 Gb	AR16ATEX 116X
17	Ex unload solenoid	Ex m	Ⓔ II 2G Ex mb II C T5 Gb	AR16ATEX 116X
18	Ex coolant lever switch	Ex i	Ⓔ II (1)G [Exia Ga] II B/II C	AR17ATEX 050X
19	Ex generator temp. switch	Ex i	Ⓔ II (1)G [Exia Ga] II B/II C	AR17ATEX 050X
20	EX Control Box	Ex d	Ⓔ II 2G Ex d [ia] II B+H2 T4 Gb	AR16ATEX 114
21	Ex generator	Ex nA	Ⓔ II 3G Ex nA IIB T3 IP54	AR18ATEX108
22	Genset convert	---	Ⓔ II 2G	AR18ATEX108
23	DNV2.7-1 Skid	---	----	DNV GL Certified
24	Sound attenuated enclosure	---	----	Less than 75dBA at 7m

To request for a quotation and detailed pricing, please contact our sales team:

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