



REGOMS ASSET DATASHEET

ZONE 2 60KVA GENSET

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Model Number: RG60-DGZ2 Serial Number: RGG5-1121-04 / RGG5-1121-05



FOR ILLUSTRATION PURPOSES ONLY

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)	60	66
Genset power (KW)	48	53
Voltage (V)	415	
Frequency	60 Hz	
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	60KVA Explosion-proof Diesel Engine Genset
Standard	EN 60079 series / EN 1834 series / EN 1755
Directive	2014/34/UE-ATEX
Genset Model	EADG60-EX2
Hazardous Zone	Zone 2
Explosion-proof Mark	Ⓔ II 3G IIB T3 Gc
Certificates	«Declaration of conformity»
Engine brand	Cummins
Engine model	6BT5.9-G2
Alternator brand	REGOMS
Alternator model	EC60-DG-EX2
Controller brand	ComAp
Controller model	MRS16
Starter Method	Spring Start

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	3200mm	3744mm
Width	1500mm	1912mm
Height	1800mm	2250mm
Weight	3085KGS	1630KGS

Engine Specification



Engine Brand	Cummins
Model	6BT5.9-G2
Cylinder number	6
Type	4-Cycle, In-line
Aspiration	Turbocharged
Bore x Stroke (mm)	102x120
Compression ratio	18:1
Rated speed (RPM)	1500
Displacement (L)	5.9
Rated power (KW)	96
Standby power (KW)	106
Coolant capacity(L)	7.9 (Engine only)
Lubrication capacity (L)	12.3

Generator Specification



Generator Brand	REGOMS
Model	EC60-DG-EX2
Rated power (KVA/KW)	60/48
Frequency (Hz)	60
Power factor (Cos Phi)	0.8
Ambient temp.	-25°C~ +60°C
Rated speed (RPM)	1500/1800
Altitude	≤1000M
Voltage (V)	415
Explosion-proof Mark	⊕ 3G Ex nA IIB T3 IP55
Certificate	《Declaration of conformity》
Hazardous Zone	Zone 2
IP Grade	IP55

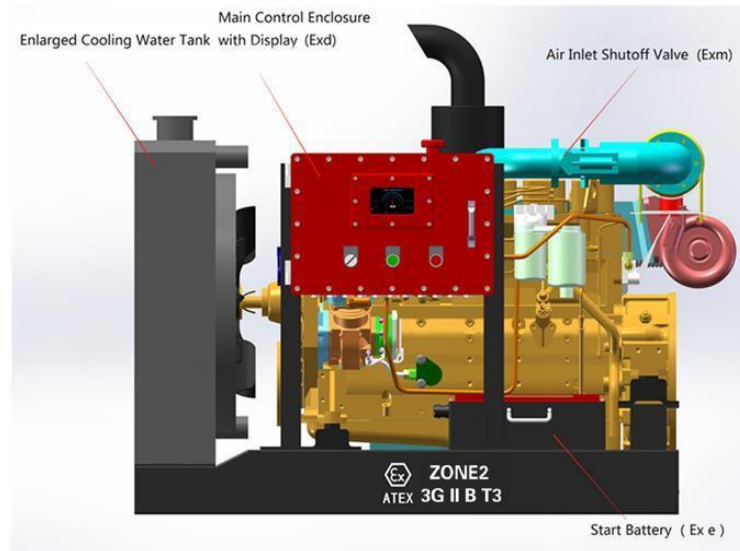
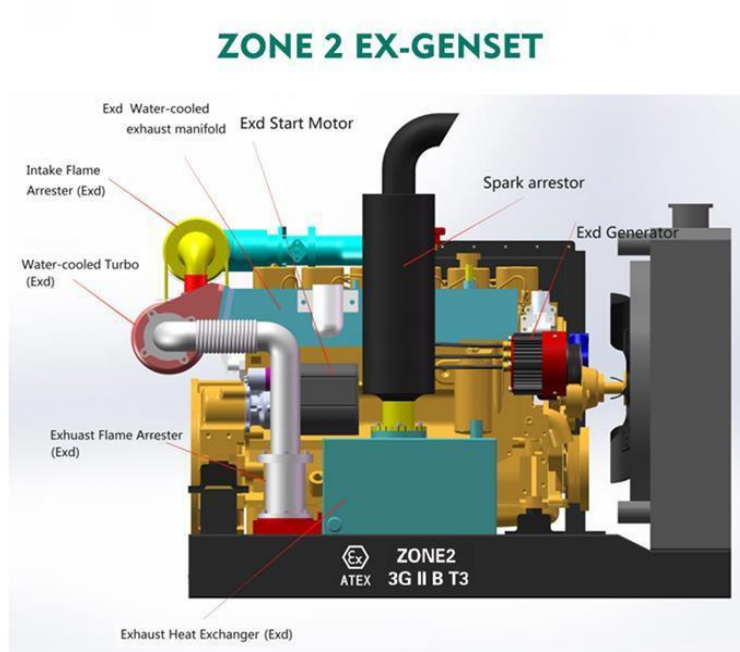
Controller Specification



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

- Modbus register mapping possibility
- Adjustable Main Screen
- A version for low temperature is also available

Typical Explosion-proof Convert Solution Reference



Skid Frame: DNV GL 2.7-1



Typical Explosion-proof Parts



Waterway In Turbocharger

Waterway In Exhaust Pipe



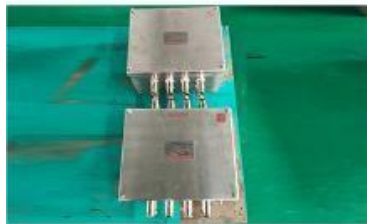
Crankcase Flame Valve

Fence Type Flame Arrester



Diesel Exhaust Cooler

Exhaust Oil Pressure Sensor



Electrical Box

Exhaust Flame Arrester



Inlet Flame Arrester

Inlet Shut Valve

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	Watercooling Exhaust manifold	Ex d	⊕ II 2 GD	AR18ATEX108
5	Watercooling 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 [ja] 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

For a quotation and detailed pricing, please contact our sales team:

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