

RID 20/48 DC S-SERIES S

ANTI VANDAL TELECOM GENSET 15 KW DC



POWER RATING

OUTPUT RATINGS		PRIME
Power	kW	14,4
Current	A	50 - 300
Voltage	V	48 DC

PRODUCT OVERVIEW

RATINGS DATA	
Order number Generator	713310
Alternator Model	RID PMG
Engine Type	Deutz - F3M2011
Generator type	Permanent magnet generator
Control Panel	RID 1000 H

DIMENSIONS AND WEIGHTS

LENGTH (L)	WIDTH (W)	HEIGHT (H)	WEIGHT	TANK CAPACITY
2200 mm	1350 mm	2225 mm	3200 kg	500 l

NOISE LEVEL

1 METER	4 METER	7 METER	10 METER
62,8 dB(A)	55,7 dB(A)	52,8 dB(A)	50,9 dB(A)

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ENGINE TECHNICAL DATA

ENGINE TECHNICAL DATA		PRIME	STANDBY
Engine output	kW	20,4	21,4
Engine type	DEUTZ F3M2011		
Engine size	3-Cylinder; in-line		
Injection system	single injection pump		
Rotational-speed range	rpm	1500	
Bore Stroke	mm	94 112	
Cooling system	oil + air		
Speed regulation	mechanical		
Compression ratio	19:1		
Displacement	l	2,3	
Engine with cooling system	kg	265	

FUEL SYSTEM

POWER STANDARD		25%	50%	75%	100%
Fuel consumption PRIME	l/h	1,9	2,9	4,2	5,8

COOLING SYSTEM

Cooling system	oil + air	
Cooling system capacity	l	9
Max. coolant outlet temperature	°C	128
Heat dissipation (radiator)	kW	10,9
Fan power consumption	kW	0,4
Cooling air flow	m ³ /h	1800

AIR SYSTEM

Air Filter Type	replaceable Element	
Combustion air volume	m ³ /h	86
max. intake depression	mbar	20

LUBRICATION SYSTEM

Oil type	RID 5W30	
Oil filter type	replaceable element	
Total oil volume	l	9
Max. oil temperature	°C	130

EXHAUST SYSTEM

Silencer type	Industrial	
Max. exhaust back pressure	mbar	30
max. exhaust gas temperature	°C	611
Exhaust gas flow	m ³ /h	236

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ALTERNATOR DATA

MODEL	RID PMG
Description	Super Compact Permanent Magnet Generator
Ratings	12 kW – 220Adc
Winding	6~
Nominal voltage	48V DC
Rectifier	redundant rectifier bridge B12
Rated speed	1000 to 3000 rpm
Execution	single bearing
Protection	IP54
Protection class	I
Dielectric strength	2500 VAC (1 Min)
Efficiency	94%
Ripple with capacitor	0,05V
Weight approx	57 kg
Drive / flange	SEA 5 / 7.5 or SEA 3 / 11.5

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BATTERY DATA

24x GRID POWER VR L 2-1080 ABS VERT (OPzV)

Series:	OPzV according to DIN Sealed lead acid battery
Version:	Stationary sealed lead-acid battery 9 OPzV 900 (GUG - filled and loaded, type of installation - VERT - vertical, HORIZ - horizontal)
Cell vessel:	gray-colored, smooth-walled vessels with high stability
Capacity:	1077 Ah with 10-hour discharge at 108 A.
Design Life (20°C):	20 years
Float voltage (20°C):	2.25 +/- 1% V / cell
Accessories:	battery connector and screws fully insulated
Standards:	IEC 60896-21 / 22

BATTERY BENEFITS

- Maintenance-free regarding water refilling – due to innovative Gel-technology
- Very high expected service life – due to optimized lead-calcium alloy
- Very high cycle stability – due to tubular plate design
- Maximum compatibility – design according to DIN 40742
- Optimal space utilization – due to possibility of horizontal arrangement
- Higher short-circuit safety even during the installation – based on HOPPECKE system connectors

AIR CONDITIONER DATA

DC Air Conditioner for Telecom (dc series)

- 48V DC power input
- 600W cooling capacity
- Door mounted – easy integration in outdoor cabinets
- Optional configured with heater
- Wide working temperature range: -40°C to +55 °C
- Energy saving
- Lifetime >10 years – minimum maintenance
- Environmental friendly – R134a and RoHS compliant
- Resistant to corrosive environments – IP55 and Salt fog tested
- RS485 for remote control
- Soft start

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CONTROL PANEL

~ RID 1000 H - HYBRID ~



ON BOARD FUNCTIONS

Low Fuel	available
Lube Oil Pressure	available
Load on DG	available
Load on Mains	available
Engine over speed	available
Engine over frequency	available
DG Fails to start/stop	available
Mains voltage low/high	available
Alternator fail	available
DG Battery low	available
BTS Battery Low Voltage	available
DG Battery Charge Fail	available
HTC (High Cylindrical Temperature	available
Load on bypass	available
DG Door Open	optional
Balanced/Unbalanced Load	optional
Mains fail/no mains supply	available
Mains on	available
DG On/Off	available
Mains contactor fail	available
DG Contactor fail DG Voltage high	available

REMOTE MONITORING FUNCTIONS

Low Fuel	available
Lube Oil Pressure	available
Load on DG	available
Fuel Level	available
Lube Oil Pressure/Level	available
Remote Start/Stop	available
Remote Mode Control (Auto/Manual)	available
Coolant Temperature	available
DG Battery Voltage	available
Mains Voltage Level	available
DG Engine Speed	optional
DG Engine Frequency	available
BTS Battery Voltage Level	available
Mains Load Current	available
DG Load Current	available
Current DG Run Hours	available
Fuel Consumption Threshold and History	available
Cylindrical Temperature Level	available
Maintenance schedule	optional
Auto Start/Stop	optional
Delayed Time Start/Stop	available
48V Logic	optional
Scheduled Start/Stop	available
Over Ethernet and IP	available
DG Battery Voltage	available