

## RID 100 S-SERIES S

### DIESEL GENERATOR SET 100 KVA



#### POWER RATING

OUTPUT RATINGS		PRIME	STANDBY
Power	kVA   kW	100   80	110   88
Current	A	144	158,4
Voltage	V	230 / 400	230 / 400
Frequency	Hz	50	
Rated at power factor	cos φ	0,8	

#### POWER RATING DESCRIPTION

##### Prime Rating

The ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

##### Standby Rating

The ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

#### PRODUCT OVERVIEW

RATINGS DATA	
Order number Generator	713482
Alternator Model	Linz PRO22S D/4   Leroy - Somer TAL 044 D
Engine Type	DEUTZ BF4M1013EC
Generator type	synchronous
Control Panel	RID 1000 A

#### DIMENSIONS AND WEIGHTS

LENGTH (L)	WIDTH (W)	HEIGHT (H)	WEIGHT	TANK CAPACITY
2800 mm	1230 mm	1875 mm	1600 kg	400 l

#### NOISE LEVEL

1 METER	4 METER	7 METER	10 METER
77 dB(A)	72 dB(A)	69 dB(A)	67 dB(A)

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#### ENGINE TECHNICAL DATA

ENGINE TECHNICAL DATA		PRIME	STANDBY
Engine output	kW	97	102
Engine type		DEUTZ BF4M1013EC	
Engine size		4-Cylinder; in-line	
Injection system		Single injection pumps	
Rotational-speed range	rpm	1500	
Bore   Stroke	mm	108   130	
Cooling system		water + air	
Speed regulation		mechanical	
Compression ratio		17,5	
Displacement	l	4,8	
Engine w/o cooling system	kg	526	
Weight with cooling system	kg	560	

#### FUEL SYSTEM

POWER STANDARD		25%	50%	75%	100%
Fuel consumption PRIME	l/h	6,9	12,4	18,4	24,6
Fuel consumption STANDBY	l/h	-	-	-	-

#### EXHAUST SYSTEM

Silencer type		Industrial
Max. exhaust back pressure	mbar	30
max. exhaust gas temperature	°C	560
Exhaust gas flow	m <sup>3</sup> /h	1102

#### LUBRICATION SYSTEM

Oil type		RID 5W30
Oil filter type		replaceable element
Total oil volume	l	11
Max. oil temperature	°C	130

#### COOLING SYSTEM

Cooling system		water + air
Cooling system capacity	l	19,7
Max. coolant outlet temperature	°C	105
Heat dissipation (radiator)	kW	52,5
Heat dissipation (CAC)	kW	13,1
Fan power consumption	kW	5,9
Cooling air flow	m <sup>3</sup> /h	6100

#### AIR SYSTEM

Air Filter Type		replaceable Element
Combustion air volume	m <sup>3</sup> /h	365,3
max. intake depression	mbar	25

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#### ALTERNATOR DATA

<b>Alternator Model</b>	Linz PRO22S D/4	Leroy - Somer TAL 044 D	
<b>Generator type</b>	synchronous		
<b>Insulation Class</b>	H		
<b>Regulation Type</b>	AVR		
<b>Control System</b>	self excited		
<b>Execution</b>	brushless		
<b>Protection class</b>	IP 23		
<b>Stator Winding</b>	Double layer with auxiliary winding		
<b>Rotor Winding</b>	with damping cage		
<b>Winding Pitch</b>	2/3		
<b>THD at full load</b>	<3%	<5%	
<b>Overspeed</b>	rpm	2250	
<b>Air Flow Requirement</b>	m <sup>3</sup> /h	1074	1044
<b>References</b>	EN60034-1	ISO8528-3	EN55011

#### CERTIFICATIONS AND NORMS

EN60034-1	ISO8528-3	EN55011	Outdoor Noise Equipment Directive 2000/14/EC
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#### CONTROL PANEL

~ RID 1000 A ~

#### CONTROLLER FUNCTIONS

FUNCTIONS	RANGES, VALUES	
<b>operating modes</b>	automatic, manual, test and remote	available
<b>mains control with limits</b>	voltage, frequency, phase sequence	available
<b>generator control with limits</b>	voltage, frequency, power, phase sequence.	available
<b>engine control with limits</b>	start, stop, shutdown by alarms	available
<b>power control</b>	current, kW, kVA, kVA <sub>r</sub> , power factor	available
<b>statistic data mains</b>	voltage, frequency and current	available
<b>statistic data generator</b>	voltage, frequency and current	available
<b>fuel level control</b>	in % and in liters	available
<b>fuel consumption control and history</b>	in l/h	available
<b>working hours per day</b>	in h	available
<b>service hours</b>	in h	available
<b>battery service</b>	in h	available
<b>events log with time and date</b>	255 events	available
<b>alarm list programming</b>	77 alarms	available
<b>protocols</b>	GSM, Ethernet, Modbus, Canbus, RID protocol	available

#### REMOTE MONITORING FUNCTIONS

<b>mains voltage L1, L2, L3</b>	in V, AC	available	<b>engine temperature</b>	in °C,	optional
<b>generator voltage L1, L2, L3</b>	in V, AC	available	<b>environment temperature</b>	in °C,	optional
<b>genset battery voltage DC</b>	in V, DC	available	<b>generator run hours</b>	in h,	available
<b>mains power total</b>	in kW,	available	<b>generator maintenance hours</b>	in h,	available
<b>generator power total</b>	in kW,	available	<b>fuel level</b>	in L,	available
<b>mains frequency</b>	in Hz	available	<b>load on mains</b>	indication	available
<b>generator frequency</b>	in Hz	available	<b>load on generator</b>	indication	available
<b>current L1, L2, L3</b>	in A,	available	<b>mains supply</b>	indication	available
<b>power L1, L2, L3</b>	in kW,	available	<b>generator supply</b>	indication	available

#### SPECIFIC ALARMS

GENSET DOOR OPEN	FUEL TANK OPEN	AIR FILTER CLOGGING	FIRE ALARM
optional	optional	optional	optional