

## RID 500 S-SERIES

### DIESEL GENERATOR SET 500 KVA



#### POWER RATING

OUTPUT RATINGS		PRIME	STANDBY
Power	kVA   kW	500   400	550   440
Current	A	723	800
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	713403
Alternator Model	Linz PRO35S C/4
Engine Type	DEUTZ - BF8M1015CP G3
Generator type	synchronous
Protection class	IP 23
Control Panel	RID 1000 A

#### DIMENSIONS AND WEIGHTS

LENGTH (L)	WIDTH (W)	HEIGHT (H)	WEIGHT	TANK CAPACITY
2800 mm	1614 mm	2218 mm	4300 kg	1000 l

#### NOISE LEVEL

1 METER	4 METER	7 METER	10 METER
87 dB(A)	86,5 dB(A)	85,2 dB(A)	83,8 dB(A)

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#### ENGINE TECHNICAL DATA

ENGINE TECHNICAL DATA		PRIME	STANDBY
Engine output	kW	448	490
Engine type		DEUTZ - BF8M1015C G2	
Engine size		8-Cylinder; V-type	
Injection system		Bosch inline pump	
Rotational-speed range	rpm	1500	
Bore   Stroke	mm	132   145	
Cooling system		water + air	
Speed regulation		electrical	
Compression ratio		16,5	
Displacement	l	15,9	
Engine w/o cooling system	kg	1060	
Weight with cooling system	kg	1300	

#### FUEL SYSTEM

POWER STANDARD		25%	50%	75%	100%
Fuel consumption PRIME	l/h	29,5	56,1	84,9	118,0

#### EXHAUST SYSTEM

Silencer type		Industrial
Max. exhaust back pressure	mbar	50
max. exhaust gas temperature	°C	560
Exhaust gas flow	m <sup>3</sup> /h	5357

#### LUBRICATION SYSTEM

Oil type		RID 5W30
Oil filter type		replaceable element
Total oil volume	l	43
Max. oil temperature	°C	130

#### COOLING SYSTEM

Cooling system		water + air
Cooling system capacity	l	116
Max. coolant outlet temperature	°C	103
Heat dissipation (radiator)	kW	250
Heat dissipation (CAC)	kW	114
Fan power consumption	kW	15,4
Cooling air flow	m <sup>3</sup> /h	29880

#### AIR SYSTEM

Air Filter Type		replaceable Element
Combustion air volume	m <sup>3</sup> /h	1848
max. intake depression	mbar	50

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#### ALTERNATOR DATA

<b>Alternator Model</b>	Linz PRO35S B/4	
<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>	I	with damping cage
<b>Winding Pitch</b>	2/3	
<b>THD at full load</b>	<3%	
<b>Overspeed</b>	rpm	2250
<b>Air Flow Requirement</b>	m <sup>3</sup> /h	3264
<b>References</b>	EN60034-1	ISO8528-3 EN55011

#### ALTERNATOR PERFORMANCE DATA

VOLTAGE SERIES STAR, V	RATED POWER (125°C/40°C), KVA   KW	X <sub>d</sub>	X' <sub>d</sub>	X'' <sub>d</sub>
380   220	500   400	375 %	19,4 %	13,3 %
400   230	500   400	338 %	17,5 %	12,0 %
415   240	500   400	314 %	16,3 %	11,1 %
440   254	470   376	263 %	13,6 %	9,3 %

#### 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>enviroment 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 maintanace 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