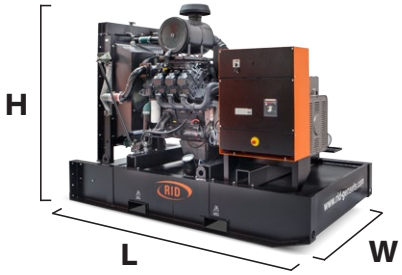
RID 400 S-SERIES

DIESEL GENERATOR SET 400 KVA



POWER RATING

OUTPUT RATINGS		PRIME	STANDBY
Power	kVA | kW	400 | 320	440 | 352
Current	A	578	635
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 comercially 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	713395
Alternator Model	Linz PRO28L G/4
Engine Type	DEUTZ - BF8M1015C G1
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	2224 mm	3900 kg	1000 l

NOISE LEVEL

1 METER	4 METER	7 METER	10 METER
86,7 dB(A)	86 dB(A)	84,5 dB(A)	83,6 dB(A)

08.06.2018 issue

RID 400 S-SERIES

DIESEL GENERATOR SET 400 KVA

ENGINE TECHNICAL DATA

ENGINE TECHNICAL DATA		PRIME	STANDBY
Engine output	kW	380	418
Engine type		DEUTZ - BF8M1015C G1	
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	1265	

FUEL SYSTEM

POWER STANDARD		25%	50%	75%	100%
Fuel consumption PRIME	l/h	27,9	46,4	69,3	93,7

EXHAUST SYSTEM

Silencer type		Industrial
Max. exhaust back pressure	mbar	50
max. exhaust gas temperature	°C	515
Exhaust gas flow	m^3/h	5375

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	102
Max. coolant outlet temperature	°C	103
Heat dissipation (radiator)	kW	196
Heat dissipation (CAC)	kW	89
Fan power consumption	kW	8,7
Cooling air flow	m^3/h	21960

AIR SYSTEM

Air Filter Type		replaceable Element
Combustion air volume	m^3/h	1953
max. intake depression	mbar	50

08.06.2018 issue

RID 400 S-SERIES

DIESEL GENERATOR SET 400 KVA

ALTERNATOR DATA

Alternator Model		Linz PRO28L G/4
Generator type		synchronous
Insulation Class		H
Regulation Type		AVR
Control System		self excited
Execution		brushless
Protection class		IP 23
Stator Winding		Double layer with auxiliary winding
Rotor Winding		with damping cage
Winding Pitch		2/3
THD at full load		<3%
Overspeed	rpm	2250
Air Flow Requirement	m^3/h	2664
References		EN60034-1 ISO8528-3 EN55011

ALTERNATOR PERFORMANCE DATA

VOLTAGE SERIES STAR, V	RATED POWER (125°C/40°C), KVA | KW	Xd	X'd	X''d
380 | 220	400 | 320	366 %	19,9 %	10,0 %
400 | 230	400 | 320	330 %	18,0 %	9,0 %
415 | 240	400 | 320	307 %	16,7 %	8,4 %
440 | 254	380 | 304	259 %	14,1 %	7,1 %

CERTIFICATIONS AND NORMS

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

08.06.2018 issue

RID 400 S-SERIES

DIESEL GENERATOR SET 400 KVA

CONTROL PANEL

~ RID 1000 A ~

CONTROLLER FUNCTIONS

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

REMOTE MONITORING FUNCTIONS

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

SPECIFIC ALARMS

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

08.06.2018 issue