

### **DIESEL GENERATOR SET 100 KVA**





#### **POWER RATING**

OUTPUT	RATINGS	PRIME	STANDBY
Power	kVA   kW	100   80	110   88
Current	А	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 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	713482
Alternator Model	Linz PRO22S D/4
Engine Type	DEUTZ BF4M1013EC
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	1230 mm	1828 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 BF	4M1013EC	
Engine size		4-Cylinde	er; in-line	
Injection system		Single injec	tion pumps	
Rotational-speed range	rpm	15	00	
Bore   Stroke	mm	108   130		
Cooling system		water + air		
Speed regulation		mechanical		
Compression ratio		17	7,5	
Displacement	I	4,8		
Engine w/o cooling system	kg	526		
Weight with cooling system	kg	56	50	

### - 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	m³/h	1102

### LUBRICATION SYSTEM

Oil type		RID 5W30
Oil filter type		replaceable element
Total oil volume	1	11
Max. oil temperature	°C	130

### - COOLING SYSTEM -

Cooling system		water + air
Cooling system capacity	I	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	m³/h	6100

### — AIR SYSTEM -

Air Filter Type		replaceable Element
Combustion air volume	m³/h	365,3
max. intake depression	mbar	25



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Alternator Model		Linz PRO22S D/4		
Generator type		synchronous		
Insulation Class		Н		
Regulation Type		AVR		
Control System		self excited		
Execution		brushless		
Protection class		IP 23		
Stator Winding		Double layer with auxiliary winding		
Rotor Winding	1	with damping cage		
Winding Pitch		2/3		
THD at full load		<3%		
Overspeed	rpm	2250		
Air Flow Requirement	m³/h	1074		
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	100   80	330 %	19,9 %	10,0 %
400   230	100   80	298 %	18,0 %	9,0 %
415   240	100   80	277 %	16,7 %	8,4 %
440   254	85   68	209 %	12,6 %	6,3 %

### - CERTIFICATIONS AND NORMS -

FN60034-1	ISO8528-3	FN55011	Outdoor Noise Equipment Directive 2000/14/EC



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### CONTROL PANEL -

~ RID 1000 A ~

### CONTROLLER FUNCTIONS -

FUNCTIONS	RANGES, VALUES	
operating modes	automatic, manual, test and remote	
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
generator voltage L1, L2, L3	in V, AC	available
genset battery voltage DC	in V, DC	available
mains power total	in kW,	available
generator power total	in kW,	available
mains frequency	in Hz	available
generator frequency	in Hz	available
current L1, L2, L3	in A,	available
power L1, L2, L3	in kW,	available

engine temperature	in °C,	optional
enviroment temperature	in °C,	optional
generator run hours	in h,	available
generator maintanace hours	in h,	available
fuel level	in L,	available
load on mains	indication	available
load on generator	indication	available
mains supply	indication	available
generator supply	indication	available

### — SPECIFIC ALARMS -

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