

## RID 120 C-SERIES

### DIESEL GENERATOR SET 120 KVA



#### POWER RATING

OUTPUT RATINGS		PRIME	STANDBY
Power	kVA   kW	120   96	132   105
Current	A	173	190
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	713726
Alternator Model	Linz PRO22M E/4   Leroy - Somer TAL 044 E
Engine Type	IVECO - N45 TM3
Generator type	synchronous
Control Panel	RID 1000 A

#### DIMENSIONS AND WEIGHTS

LENGTH (L)	WIDTH (W)	HEIGHT (H)	WEIGHT	TANK CAPACITY
1800 mm	910 mm	1554 mm	1350 kg	230 l

#### NOISE LEVEL

1 METER	4 METER	7 METER	10 METER
84 dB(A)	83 dB(A)	82 dB(A)	81 dB(A)

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#### ENGINE TECHNICAL DATA

ENGINE TECHNICAL DATA		PRIME	STANDBY
Engine output	kW	109	120
Engine type		IVECO - N45 TM3	
Engine size		4-Cylinder; in-line	
Injection system		direct	
Rotational-speed range	rpm	1500	
Bore   Stroke	mm	104   132	
Cooling system		water + air	
Speed regulation		mechanical	
Compression ratio		17,5	
Displacement	l	4,5	
Weight with cooling system	kg	~500	

#### FUEL SYSTEM

POWER STANDARD		25%	50%	75%	100%
Fuel consumption PRIME	l/h	-	14,4	20,9	27,6

#### EXHAUST SYSTEM

Silencer type		Industrial
Max. exhaust back pressure	mbar	50
max. exhaust gas temperature	°C	540

#### AIR SYSTEM

Air Filter Type		replaceable Element
Combustion air volume	m <sup>3</sup> /h	427
max. intake depression	mbar	20

#### COOLING SYSTEM

Cooling system		water + air
Cooling system capacity	l	18,5
Max. coolant outlet temperature	°C	103
Cooling air flow	m <sup>3</sup> /h	7920

#### LUBRICATION SYSTEM

Oil type		RID 10W40
Oil filter type		replaceable element
Total oil volume	l	12,8
Max. oil temperature	°C	120

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#### ALTERNATOR DATA

<b>Alternator Model</b>	Linz PRO22M E/4	Leroy - Somer TAL 044 E	
<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	1092	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