RID 350 B-SERIES

DIESEL GENERATOR SET 350 KVA

POWER RATING

OUTPUT RATINGS		PRIME	STANDBY
Power	kVA | kW	350 | 280	385 | 308
Current	A	505	555,5
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	713748
Alternator Model	Linz PRO28M F/4
Engine Type	DOOSAN P158LE-1
Generator type	synchronous
Protection class	IP 23
Control Panel	RID 1000 A

DIMENSIONS AND WEIGHTS

LENGTH (L)	WIDTH (W)	HEIGHT (H)	WEIGHT	TANK CAPACITY
2850 mm	1700 mm	2210 mm	3050 kg	1000 l

NOISE LEVEL

1 METER	4 METER	7 METER	10 METER
87 dB(A)	86 dB(A)	85 dB(A)	84 dB(A)

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ENGINE TECHNICAL DATA

ENGINE TECHNICAL DATA		PRIME	STANDBY
Engine output	kW	327	362
Engine type		DOOSAN - P158LE-1	
Engine size		8-Cylinder; V-type	
Injection system		Bosch in-line "P" type	
Rotational-speed range	rpm	1500	
Bore | Stroke	mm	128 | 142	
Cooling system		water + air	
Speed regulation		electrical	
Compression ratio		15:1	
Displacement	l	14,6	
Engine dry weight with Fan	kg	950	

FUEL SYSTEM

POWER STANDARD		25%	50%	75%	100%
Fuel consumption PRIME	l	21,0	40,0	58,4	78,7
Fuel consumption STANDBY	l	23,1	43,7	64,7	88,3

EXHAUST SYSTEM

Silencer type		Industrial
max. exhaust gas temperature	°C	520
Exhaust gas flow	m^3/h	3984
Max. exhaust back pressure	mbar	59

LUBRICATION SYSTEM

Oil type		RID 10W40
Oil filter type		replaceable element
Total oil volume	l	21
Max. oil temperature	°C	120

COOLING SYSTEM

Cooling system		water + air
Cooling system capacity	l	20
Fan power consumption	kW	16
Cooling air flow	m^3/h	31320

AIR SYSTEM

Air Filter Type		replaceable Element
Combustion air volume	m^3/h	1452
max. intake depression	mbar	21,6

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ALTERNATOR DATA

Alternator Model		Linz PRO28M F/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	I	with damping cage
Winding Pitch		2/3
THD at full load		<3%
Overspeed	rpm	2250
Air Flow Requirement	m^3/h	2370
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	350 | 280	377 %	19,9 %	9,4 %
400 | 230	350 | 280	340 %	18,0 %	8,5 %
415 | 240	350 | 280	316 %	16,7 %	7,9 %
440 | 254	340 | 272	273 %	14,5 %	6,8 %

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	
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
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

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