

RID 20 E-SERIES S

DIESEL GENERATOR SET 20 KVA



POWER RATING

OUTPUT RATINGS		PRIME	STANDBY
Power	kVA kW	20 16	22 17,6
Current	A	29	31,9
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	713662
Alternator Model	Linz SLT18 MD Leroy - Somer TAL 040 F
Engine Type	MITSUBISHI - S4Q2
Generator type	synchronous
Control Panel	RID 1000 A

DIMENSIONS AND WEIGHTS

LENGTH (L)	WIDTH (W)	HEIGHT (H)	WEIGHT	TANK CAPACITY
1500 mm	782 mm	1246 mm	630 kg	150 l

NOISE LEVEL

1 METER	4 METER	7 METER	10 METER
72,5 dB(A)	66 dB(A)	62 dB(A)	59 dB(A)

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ENGINE TECHNICAL DATA

ENGINE TECHNICAL DATA		PRIME	STANDBY
Engine output	kW	20,3	22,2
Engine type		MITSUBISHI - S4Q2	
Engine size		4-Cylinder; in-line	
Injection system		Inline diesel injection pump	
Rotational-speed range	rpm	1500	
Bore Stroke	mm	88 103	
Cooling system		water + air	
Speed regulation		mechanical	
Compression ratio		22:1	
Displacement	l	2,5	
Engine w/o cooling system	kg	195	

FUEL SYSTEM

POWER STANDARD		25%	50%	75%	100%
Fuel consumption PRIME	l/h	2,45	3,5	4,7	6,4

EXHAUST SYSTEM

Silencer type		Industrial
Max. exhaust back pressure	mbar	66,7
Exhaust gas flow	m ³ /h	270

LUBRICATION SYSTEM

Oil type		RID 10W40
Oil filter type		replaceable element
Total oil volume	l	6,5

COOLING SYSTEM

Cooling system		water + air
Cooling system capacity (Engine)	l	4,0
Fan power consumption	kW	0,7

AIR SYSTEM

Air Filter Type		replaceable Element
Combustion air volume	m ³ /h	102
max. intake depression	mbar	19,6

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ALTERNATOR DATA

Alternator Model	Linz SLT18 MD	Leroy - Somer TAL 040 F
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%	<5%
Overspeed	rpm	2250
Air Flow Requirement	m ³ /h	330
References	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	
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, kVA _r , 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 programming	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