

RID 680 G-SERIES

DIESEL GENERATOR SET 680 KVA



POWER RATING

OUTPUT RATINGS		PRIME	STANDBY
Power	kVA kW	680 544	748 598
Current	A	983	1080
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	713542
Alternator Model	Linz PRO35M G/4 Leroy - Somer TAL 049 B
Engine Type	MTU 12 V 2000 G25F
Generator type	synchronous
Protection class	IP 23
Control Panel	RID 1000 A

DIMENSIONS AND WEIGHTS

LENGTH (L)	WIDTH (W)	HEIGHT (H)	WEIGHT	TANK CAPACITY
4100 mm	1800 mm	2100 mm	6200 kg	1000 l

NOISE LEVEL

1 METER	4 METER	7 METER	10 METER
87 dB(A)	85 dB(A)	83 dB(A)	81 dB(A)

RID 680 G-SERIES

DIESEL GENERATOR SET 680 KVA



ENGINE TECHNICAL DATA

ENGINE TECHNICAL DATA		PRIME	STANDBY
Engine output	kW	580	638
Engine type		MTU 12 V 2000 G25F	
Engine size		12-Cylinder; V-type	
Injection system		Bosch in-line "P" type	
Rotational-speed range	rpm	1500	
Bore Stroke	mm	130 150	
Cooling system		water + air	
Speed regulation		electrical	
Compression ratio		16:1	
Displacement	l	23,88	
Engine dry weight with Fan	kg	2660	

FUEL SYSTEM

POWER STANDARD		25%	50%	75%	100%
Fuel consumption PRIME	l/h	41,6	74,2	106,7	140,2

EXHAUST SYSTEM

Silencer type		Industrial
max. exhaust gas temperature	°C	555
Exhaust gas flow	m ³ /h	7560
Max. exhaust back pressure	mbar	85

LUBRICATION SYSTEM

Oil type		RID 10W30
Oil filter type		replaceable element
Total oil volume	l	74
Max. oil temperature	°C	105

COOLING SYSTEM

Cooling system		water + air
Cooling system capacity	l	90
Fan power consumption	kW	40
Cooling air flow	m ³ /h	51600

AIR SYSTEM

Air Filter Type		replaceable Element
Combustion air volume	m ³ /h	2700
max. intake depression	mbar	50

RID 680 G-SERIES

DIESEL GENERATOR SET 680 KVA



ALTERNATOR DATA

Alternator Model	Linz PRO35M G/4	Leroy - Somer TAL 049 B	
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	3360	3600
References	EN60034-1	ISO8528-3	EN55011

CERTIFICATIONS AND NORMS

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

RID 680 G-SERIES

DIESEL GENERATOR SET 680 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, 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