

RID 300 C-SERIES

DIESEL GENERATOR SET 300 KVA



POWER RATING

| OUTPUT RATINGS | | PRIME | STANDBY |
|-----------------------|----------|-----------|-----------|
| Power | kVA kW | 300 240 | 330 264 |
| Current | A | 433 | 476 |
| 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 | 713780 |
| Alternator Model | Linz PRO28M E/4 Leroy - Somer TAL 046 F |
| Engine Type | IVECO - C87TE4F |
| Generator type | synchronous |
| Control Panel | RID 1000 A |

DIMENSIONS AND WEIGHTS

| LENGTH (L) | WIDTH (W) | HEIGHT (H) | WEIGHT | TANK CAPACITY |
|------------|-----------|------------|---------|---------------|
| 2700 mm | 1150 mm | 1865 mm | 2835 kg | 500 l |

NOISE LEVEL

| 1 METER | 4 METER | 7 METER | 10 METER |
|------------|----------|------------|------------|
| 86,7 dB(A) | 86 dB(A) | 84,5 dB(A) | 83,6 dB(A) |

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ENGINE TECHNICAL DATA

| ENGINE TECHNICAL DATA | | PRIME | STANDBY |
|----------------------------|-----|---------------------|---------|
| Engine output | kW | 281 | 305 |
| Engine type | | IVECO - C87TE4F | |
| Engine size | | 6-Cylinder; in-line | |
| Injection system | | direct common rail | |
| Rotational-speed range | rpm | 1500 | |
| Bore Stroke | mm | 117 135 | |
| Cooling system | | water + air | |
| Speed regulation | | electrical | |
| Compression ratio | | 15,9:1 | |
| Displacement | l | 8,7 | |
| Weight with cooling system | kg | ~ 1050 | |

FUEL SYSTEM

| POWER STANDARD | | 25% | 50% | 75% | 100% |
|------------------------|-----|-----|------|------|------|
| Fuel consumption PRIME | l/h | - | 37,3 | 52,6 | 66,6 |

EXHAUST SYSTEM

| | | |
|------------------------------|------|------------|
| Silencer type | | Industrial |
| Max. exhaust back pressure | mbar | 100 |
| max. exhaust gas temperature | °C | 488 |

AIR SYSTEM

| | | |
|------------------------|-------------------|---------------------|
| Air Filter Type | | replaceable Element |
| Combustion air volume | m ³ /h | 1085 |
| max. intake depression | mbar | 20 |

COOLING SYSTEM

| | | |
|---------------------------------|-------------------|-------------|
| Cooling system | | water + air |
| Cooling system capacity | l | 58 |
| Max. coolant outlet temperature | °C | 103 |
| Cooling air flow | m ³ /h | 20340 |

LUBRICATION SYSTEM

| | | |
|----------------------|----|---------------------|
| Oil type | | RID 10W40 |
| Oil filter type | | replaceable element |
| Total oil volume | l | 28 |
| Max. oil temperature | °C | 120 |

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ALTERNATOR DATA

| | | | |
|-----------------------------|-------------------------------------|-------------------------|---------|
| Alternator Model | Linz PRO28M E/4 | Leroy - Somer TAL 046 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 | 2310 | 1728 |
| 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 | environment 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 maintenance 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 |