

رادوکو نمایندگی دیزل ژنراتور

GENPOWER® GENERATOR

GNT 100 & 108

231/400V - 50Hz & 277/480V - 60Hz

تلفن : 021-58437

www.Radocorp.com



Features and Benefits

- Half Century Experience in Generator Manufacturing
- Diesel Engines with Advanced Technology and Quality
- Alternators with Advanced Technology and Quality
- Control Panel Suitable for Flexible Application
- High Quality and Reliable Technology
- Patented Compact Designed and Soundproof Canopy
- Suitable for Heavy-Duty
- Durability
- Wide Range of Affordable Spare Parts
- Low Noise Level
- Low Exhaust Emission
- Low Operating Cost
- Low Fuel Consumption
- Low Oil Consumption
- Tropical 50°C Radiator
- Fuel Filter with Water and Particle Separator
- First Class Product Support
- Global Technical Service and Maintenance Support

Generator General Information

| Generator | Frequency | Voltage | Power Factor | Speed | Diesel Engine | | | Alternator | | | Type of | Generator Output | | |
|----------------|-----------|---------|--------------|-------|-----------------------|--------|--------|--------------------------------------|-------------|--------|------------|------------------|------|-------|
| Model | Hz | V | CosQ | rpm | Brand | Model | Series | Brand | Model | Series | Operation | kVA | kW | A |
| GNT 100 | 50 | 231/400 | 0,8 | 1500 | I N T E R | E124TD | DII | G E N P O W E R | G N P | 225M2 | Stand By | 100,0 | 80,0 | 144,5 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | Continuous | 63,6 | 50,9 | 92,0 |
| GNT 108 | 60 | 277/480 | 0,8 | 1800 | | | | | | 225M2 | Stand By | 108,0 | 86,4 | 156,1 |
| | | | | | | | | | | | Prime | 98,2 | 78,5 | 141,9 |
| | | | | | | | | | | | Continuous | 68,7 | 55,0 | 99,3 |

INTER Diesel Engine Technical Parameters and Matching Parameters

Diesel Engine Main Technical Parameters

General

| | | |
|---------------------|----|-------------------|
| Number of Cylinders | | 4 |
| Configuration | | Vertical, In Line |
| Aspiration | | Turbocharged |
| Combustion System | | Direct Injection |
| Compression Ratio | | 16:1 |
| Bore | mm | 105 |
| Stroke | mm | 130 |
| Displacement | L | 4,5 |
| Governing Type | | Electronic |
| Governing Class | | G3 |
| Rotation | | Counterclockwise |
| Firing Order | | 1-3-4-2 |
| Emission | | Tier II |

Moments of Rotation Inertia

| | | |
|----------|---------------------|-------|
| Engine | kg · m ² | 1,068 |
| Flywheel | kg · m ² | 0,91 |

Performance Rating

| | | |
|-------------------------|---|------|
| Speed Droop | % | ≤0,5 |
| Steady State Speed Band | % | ≤0,5 |

Test Conditions

| | | |
|------------------------------------|--------|--------|
| Ambient Temperature | % | 25 |
| Atmospheric Pressure | kPa | 100 |
| Relative Humidity | RH (%) | 30 |
| Max. Operating Intake Resistance | kPa | 5 |
| Exhaust Backpressure Limit | kPa | 10 |
| Fuel Temperature (Fuel Inlet Pump) | °C | 38 ± 2 |

Filters

| | | |
|-------------|--|--------------------------------|
| Air Filter | | Dry Type, Replaceable |
| Fuel Filter | | With Water Separator |
| Oil Filter | | Element Type, Particulate Trap |

Flywheel Housing and Flex Coupling

| | | |
|--------------------|------------|------|
| Flywheel Housing | SAE (J620) | 3 |
| Flex Coupling Disc | Inch (") | 11,5 |

Overall Dimensions

| | | |
|------------|----|------|
| Length * | mm | 1015 |
| Width | mm | 700 |
| Height | mm | 985 |
| Dry Weight | Kg | 490 |

* From front end of radiator to rear end of air filter

Cooling System

| | | |
|--------------------------------------------------|-------------------|----------|
| Radiator Type | 50°C | Tropical |
| Total Coolant Capacity | L | 30 |
| Max. Perm. Coolant Outlet Temperature | °C | 103 |
| Max. Perm. Flow Resis. (Cool. System And Piping) | bar | 0,5 |
| Max. Temperature of Coolant Warning | °C | 95 |
| Max. Temperature of Coolant Shutdown | °C | 98 |
| Thermostat Operation Temperature - Initial Open | °C | 72 |
| Thermostat Operation Temperature - Full Open | °C | 80 |
| Delivery of Coolant Pump | m ³ /h | 2,48 |
| Min. Pressure Before Coolant Pump | bar | 0,15 |
| Radiator Face Area | m ² | 0,31 |
| Rows | Row | 3 |
| Matrix Density | Per / Inch | 15,5 |
| Material | | Aluminum |
| Width of Matrix | mm | 530 |
| Height of Matrix | mm | 590 |
| Pressure Cap Setting | kPa | 90 |
| Estimated Cooling Air Flow Reserve | kPa | 0,125 |
| Engine Pre Heater Tube (with Circulation Pump) | W | 1500 |

Lubrication System

| | | |
|----------------------------------------|-----|---------|
| Total System | L | 15 |
| Minimum Oil Level | L | 14 |
| Nominal Motor Operating Temperature | °C | 40 |
| Lubricating Oil Pressure (Rated Speed) | bar | 5 |
| Relief Valve Opens | kPa | 250-400 |
| Oil / Fuel Consumption Ratio | % | ≤1,63 |
| Normal Oil Temperature | °C | 120 |

Electrical System

| | | |
|---------------------------|----|-----|
| Voltage | V | 12 |
| Starter | kW | 4,7 |
| Alternator Output Amperes | A | 42 |
| Alternator Output Voltage | V | 14 |
| Batteries Capacity | Ah | 85 |

Fan

| | | |
|------------------|----|---------|
| Diameter | mm | 480 |
| Drive Ratio | | 1,9:1 |
| Number of Blades | | 6 |
| Material | | Plastic |
| Type | | Blowing |

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GENPOWER® GENERATOR

231/400V - 50Hz & 277/480V - 60Hz

Diesel Engine Matching Parameters

50 Hz @ 1500 r/min

| | | Stand By | Prime |
|--------------------------------------------|----------------------|----------|-------|
| Gross Engine Power | kW | 94,0 | 85,0 |
| Net Engine Power | kW | 90,0 | 81,0 |
| Fan Power Consumption (Belt Pulley Driven) | kW | 2,2 | 2,2 |
| Other Power Loss | kW | 2,3 | 2,3 |
| Mean Effective Pressure | MPa | 1,67 | 1,51 |
| Intake Air Flow | m ³ / min | 7,22 | 7,22 |
| Exhaust Temperature Limit | °C | 580 | 528 |
| Exhaust Flow | m ³ / min | 21,17 | 19,25 |
| Boost Pressure Ratio | | 6,40 | 6,10 |
| Mean Piston Speed | m / s | 6,5 | 6,5 |
| Cooling Fan Air Flow | m ³ / min | 149,0 | 149,0 |
| Typical Generator Output Power | kVA | 101 | 91 |
| Heat Rejection | | | |
| Energy in Fuel (Heat of Combustion) | kW | 244,0 | 220,0 |
| Gross Heat to Power | kW | 94,0 | 85,0 |
| Energy to Coolant and Lubricating Oil | kW | 66,3 | 59,7 |
| Heat Dissipation Capacity* | kW | - | - |
| Energy to Exhaust | kW | 76,8 | 69,1 |
| Heat to Radiation | kW | 7,0 | 6,4 |

*Intake Intercooled System

60 Hz @ 1800 r/min

| | | Stand By | Prime |
|--------------------------------------------|----------------------|----------|-------|
| Gross Engine Power | kW | 101,0 | 91,0 |
| Net Engine Power | kW | 97,2 | 87,4 |
| Fan Power Consumption (Belt Pulley Driven) | kW | 2,6 | 2,6 |
| Other Power Loss | kW | 1,2 | 1,0 |
| Mean Effective Pressure | MPa | 1,49 | 1,36 |
| Intake Air Flow | m ³ / min | 7,73 | 7,73 |
| Exhaust Temperature Limit | °C | 621 | 570 |
| Exhaust Flow | m ³ / min | 22,65 | 20,70 |
| Boost Pressure Ratio | | 6,90 | 6,70 |
| Mean Piston Speed | m / s | 7,8 | 7,8 |
| Cooling Fan Air Flow | m ³ / min | 159,0 | 159,0 |
| Typical Generator Output Power | kVA | 109 | 99 |
| Heat Rejection | | | |
| Energy in Fuel (Heat of Combustion) | kW | 261,2 | 233,1 |
| Gross Heat to Power | kW | 100,6 | 87,8 |
| Energy to Coolant and Lubricating Oil | kW | 70,9 | 64,2 |
| Heat Dissipation Capacity* | kW | 0,0 | 0,0 |
| Energy to Exhaust | kW | 82,2 | 74,4 |
| Heat to Radiation | kW | 7,5 | 6,8 |

*Intake Intercooled System

GENPOWER Alternator Technical Parameters and Specifications

Alternator Technical Parameters

| | | | | | |
|------------------|---------------------|--------------|---------------------------------|----------|--------------|
| Insulation Class | | H | Field Control System | | Self Excited |
| Winding Pitch | | 2/3 - (N° 6) | A.V.R. Model | Standard | SX460 |
| Wires | | 12 | Voltage Regulation | % | ± 1 |
| Protection | | IP 23 | Sustained Short-Circuit Current | 10 sec | 300% (3 IN) |
| Altitude | m | 1000 | Total Harmonic (*) TGH / THC | % | < 5 |
| Overspeed | rpm | 2250 | Wave Form :NEMA = TIF - (*) | | < 50 |
| Air Flow | m ³ /sec | 0,216 | Wave Form :I.E.C. = THF - (*) | % | < 2 |
| Bearing Drive | N/A | - | Bearing Non - Drive | Bearing | 6309-2RZ |
| Rotor Winding | 100% | Copper | Stator Winding | 100% | Copper |

(*) Total harmonic content line to line, at no load or full rated linear and balanced load

Genpower synchron alternators are produced according to TSE 60034-1; IEC 60034-22; GB755; BS4999-5000; NEMA MG 1.22 standards

Alternator Specifications

50 Hz - 231/400V - Cos Q 0,8 - 1500 rpm

| Standard Using Alternator | | Optional Using Alternator | | | | | | | | |
|---------------------------|----------|---------------------------|---------|-------------|---------|----------|------------|---------|---------|--|
| Brand/Model | Genpower | 225M2 | | Leroy Somer | TAL044C | Stamford | UC274C | | | |
| Duty | | Continuous | | | | | Stand By | | | |
| Ambient | C° | 40°C | | | | | 27°C | | | |
| Class/Temp. Rise | C° | H / 125° K | | | | | H / 163° K | | | |
| Series Star (V) | V | 380/220 | 400/231 | 415/240 | 1 Phase | 380/220 | 400/231 | 415/240 | 1 Phase | |
| Parallel Star (V) | V | 190/110 | 200/115 | 208/120 | 220 | 190/110 | 200/115 | 208/120 | 220 | |
| Series Delta (V) | V | 220 | 230 | 240 | 230 | 220 | 230 | 240 | 230 | |
| Output Power | kVA | 91,0 | 91,0 | 94,0 | - | 100,0 | 100,0 | 103,0 | - | |
| Output Power | kW | 72,8 | 72,8 | 75,2 | - | 80,0 | 80,0 | 82,4 | - | |

60 Hz - 277/480V - Cos Q 0,8 - 1800 rpm

| Standard Using Alternator | | Optional Using Alternator | | | | | | | | |
|---------------------------|----------|---------------------------|---------|-------------|---------|----------|------------|---------|---------|--|
| Brand/Model | Genpower | 225M2 | | Leroy Somer | TAL044B | Stamford | UC 224G | | | |
| Duty | | Continuous | | | | | Stand By | | | |
| Ambient | C° | 40°C | | | | | 27°C | | | |
| Class/Temp. Rise | C° | H / 125° K | | | | | H / 163° K | | | |
| Series Star (V) | V | 416/240 | 440/254 | 480/277 | 1 Phase | 416/240 | 440/254 | 480/277 | 1 Phase | |
| Parallel Star (V) | V | 208/120 | 220/127 | 240/138 | - | 208/120 | 220/127 | 240/138 | - | |
| Series Delta (V) | V | 240 | 254 | 277 | 240 | 240 | 254 | 277 | 240 | |
| Output Power | kVA | 103,0 | 108,0 | 114,0 | - | 113,0 | 119,0 | 125,0 | - | |
| Output Power | kW | 82,4 | 86,4 | 91,2 | - | 90,4 | 95,2 | 100,0 | - | |

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GNT 100 & 108

GENPOWER®

G E N E R A T O R

231/400V - 50Hz & 277/480V - 60Hz

Control Panel Specifications

| | | | |
|-----------------------------------------------|------------------------|----------------------|----------------------------|
| Powder Painted Steel Panel with Lockable Door | Battery Charger | Control Relays | System Protection MCBs |
| ATS (Automatic Transfer Panel) - Optional | Emergency Stop Button | Terminal Blocks | Circuit Breaker - Optional |
| Control Module | Backlit, 128x64 Pixels | Load Output Terminal | LCD Screen |

Control Module Technical Parameters

| | | | |
|---------------------------------------|-------------------|-----------------------------------|---------------------------------------|
| Brand | GENPOWER | Model | Trans-MIDIAMF.232.GP |
| Dimensions | 120mm x 94mm | Protection Class | IP65 From the Front |
| Weight | 260 gr. | Environmental Conditions | 2000 Meters Above Sea Level |
| Ambient Humidity | 90% max. | Ambient Temperature | -20 ° C to + 70 ° C |
| DC Battery Supply Voltage | 8 - 32 V | Battery Voltage Measurement | 8 - 32 V |
| Network Frequency | 5 - 99.9 Hz | Mains Voltage Measurement | 3 - 300 V Phase-Neutral, 5 - 99.9 Hz |
| Generator Voltage Measurement | 3 - 300 V | Generator Frequency | 5 - 99.9 Hz |
| Current Transformer Secondary | 5A | Working Period | Continuous |
| Charge Alternator Voltage Measurement | 8 - 32 V | Charge Alternator Excitation | 210mA & 12V, 105mA & 24V Nominal 2.5W |
| Communication Interface | RS-232 | Analog Sender Measurement | 0 - 1300ohm |
| Generator Contactor Relay Output | 5A & 250V | Mains Contactor Relay Output | 5A & 250V |
| Solenoid Transistor Outputs | 1A with DC Supply | Start Transistor Outputs | 1A with DC Supply |
| Configurable-3 Transistor Outputs | 1A with DC Supply | Configurable-4 Transistor Outputs | 1A with DC Supply |

Control Module Functions

| | | | | |
|------------------------------------|------------------------------------------------------|--------------------------------------|-------------------------------------|----------------------------------------|
| Mains Voltage Level Control | Generator Voltage Level Control | 3 phase Generator Protections | 3 phase AMF Function | Alarm Horn |
| Network Frequency Level Control | Generator Frequency Level Control | - High / Low Voltage | - High / Low Frequency | Heater Tube Thermostat Control |
| Engine Operating Option Control | Generator Current Level Control | - High / Low Frequency | - High / Low Voltage | Modbus and SNMP |
| Engine Stop Option Control | Generator Power Level Control | - Current / Voltage Asymmetry | - High / Low Water Temperature | Working Hour |
| Engine Speed (RPM) Level Control | Generator Work Schedule and Timing Control | - Overcurrent / Overload | - High / Low Load | Ground Leakage |
| Battery Voltage Options Control | Oil Pressure Controllers Control | Overheat Control | Mains, Generator ATS control | Analog Modem |
| Check Engine Maintenance Times | Configurable Analog Inputs and Outputs | 1 Phase or 3 Phase, Phase Selection | Network, Voltage, Frequency Display | Ethernet, USB, RS232, RS485 |
| Communication Interfaces GPRS, GSM | Keeping Error Records of Past Events | Parameter Setting via Control Module | Parameter Setting via Computer | Selectable Protection Alarm / Shutdown |
| Engine Speed | Configurable Programmable Digital Inputs and Outputs | Water Temperature | Hours of Operation | Battery Voltage |
| Voltage | Current and Frequency | Phase Sequence | Earting | Oil Pressure |

Control Module Alerts

| | | | | |
|----------------------------|----------------------------|-----------------------|-------------------------|---------------------------------|
| Emergency Stop Malfunction | Low Generator Voltage | Low Water Temperature | Charge Alternator Error | High Oil Temperature (Optional) |
| High Generator Voltage | High Generator Frequency | Heat Sensor Broken | Unbalanced Load | Low Fuel Level (Optional) |
| Low Generator Frequency | Phase Sequence Error | Reverse Power | Maintenance Time Alarm | High Battery Voltage |
| Low Load | Overload | Start Error | Low Speed | Low Battery Voltage |
| Over Current | Low Water Level (Optional) | Stop Error | High Speed | High Water Temperature |
| Unbalanced Current | Low Oil Pressure | Magnetic Pickup Error | Broken Oil Sensor Cable | Electronic Canbus Errors (ECU) |

Sound Proof Canopy and Base Frame (Chassis) Specifications

| | | | | |
|---------------------------------------------------|---------------------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|
| Special, Registered GENPOWER Design and Color | Robotic Painting with Electrostatic Powder Paint | Temperature Tests | Fuel Inlet and Return Records | Lifting and Carrying Equipments |
| A1 Quality DKP / HRU / Galvanized Steel | Drying and Stabilizing on 200°C Ovens | Rustproof Accessories | Impermeability Test for Fuel Tank | Internal Exhaust Mufflers (Silencers) |
| Sensitive Twist on Automatic Press Brake | 1500 Hour Salt Test | Cable Exit Connectors and Glands | Vacuumed Rubber Mounted | External Exhaust Mufflers (Silencers) |
| Delicate Cut on Automatic Punch and Laser Bench | Glasswool Isolation, A1 Class Material -50/+500°C | Emergency Stop Button | High Quality Weatherstrips | Radiator Water Filling Cap |
| Sensitive Welding on Robotic Welding Bench | Special Covering Over Glass Wool | Fuel Level Gauge | High Quality Shock Absorbers | Daily Fuel Tank |
| Chemical Cleaning Nano Technology Before Painting | Best Sound Level (in dBA) | Fuel Drain Cap | Fuel Filling Cap (with ventilation) | External Fuel Tank |

Special Products / Non - Standardized

| | | | | |
|------------------------------|----------------------------|-----------------------|---------------------------|--------------------------------|
| Synchronised Systems | Generators - with Trailer | DC Generators | High Frequency Generators | Marine Generators |
| Scada Systems | Medium Voltage - MV | High Voltage - HV | Variable Speed Generators | Dual Generators |
| Mobile Systems | IP44-IP54 Class Generators | Power Plants | Super Silent Canopy | Automatic Voltage Stabilizers |
| Light Towers | Welding Machines | Trigeneration Systems | Cogeneration Systems | Electrical and Diesel Forklift |
| Ground Power Unit Generators | Natural Gas Generator | Biogas Generator | LPG Generator | HFO Generator |

Quality Documents & Certificates

| | | | | |
|------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------|-----------------------------------|---------------------------------------|
| Trademark Registration Certificate | Industrial Registry Certificate | TSE 8528 - 4 Certificate | TS EN ISO 2409 Certificate | EN ISO 8528-13,2016 Certificate |
| Capacity Report (32400 Units / Year) | Certificate of Manufacturing Competence | TSE 8528 - 5 Certificate | TS EN ISO 4628-3 Certificate | EN ISO 12100:2010 Certificate |
| Made in Turkey Certificate- For Generator/1-5000 kVA | TSE- Service Adequacy Certificate | TSE 8528 - 8 Certificate | TS EN ISO 4628-4 Certificate | EN ISO 13857:2008 Certificate |
| Made in Turkey Certificate-For Alternator/1-5000kVA | ISO 9001 - 2015 Certificate | AB-0547-T Certificate | TS EN ISO 4628-5 Certificate | EN ISO 14120:2015 Certificate |
| Made in Turkey Certificate- For Engine/1-5000 kW | ISO 14001 - 2015 Certificate | EAC - GOST Certificate/ Diesel Generator | TS EN ISO 4628-8 Certificate | EN 349:1993+A1:2008 Certificate |
| Certificate of Competency for After Sales Services | OHSAS 18001 - 2007 Certificate | EAC - GOST Certificate/ Gasoline Generator | TS EN ISO 9227 Certificate | EN 60204-1,2018 Certificate |
| 2014/30/EU Electromagnetic Compatibility Directive | 2006/42/EC Machinery Directive | CE Certificate - EN ISO 17050-1,2004 | TS 9620 EN ISO 4628-2 Certificate | EN 61000-6-2,2019 Certificate |
| CE Certificate - 2000/14/AT - 2000/14 EC (CE 2195) | Coatchem- Türkak 1500 Hours Corrosion Durability Test Certificate | | TS EN 60034 - 1 Certificate | EN 61000-6-4,2007/A1:2011 Certificate |

GNT SERIES

GNT 100 & 108

GENPOWER[®]

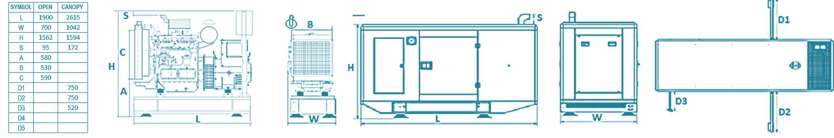
GENERATOR

231/400V - 50Hz & 277/480V - 60Hz

Generator Dimensions

| Values | | Open Type Generator | Canopy Type Generator |
|--------------------|----|---------------------|-----------------------|
| Width | mm | 700 | 1042 |
| Length | mm | 1900 | 2615 |
| Height | mm | 1562 | 1766 |
| Weight (Net) | Kg | 1024 | 1200 |
| Fuel Tank Capacity | L | 161 | 205 |

Generator Technical Drawings



Diesel Engine and Genset Rating Classifications

The below ratings represent the engine performance capabilities to conditions specified in TS ISO 8528/1, 8528-4, 8528-5, 8528-8, BS5000, ISO 3046/1:1986, NEMA MG-1.22.1, BS 5514/1.

STAND BY POWER RATING (ESP):

ESP is applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the Stand By Power rating. This rating should be applied where reliable utility power is available. A Stand By rated engine should be sized for a maximum of an 70% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Stand By Power rating. Stand By ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered an emergency.

PRIME POWER RATING (PRP):

Applicable for supplying electric power in lieu of commercially purchased power. Prime Power applications must be in the form of one of the following two categories:

UNLIMITED TIME RUNNING PRIME POWER (ULTP):

PRP (Prime Power) is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 250 hours. The total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

LIMITED TIME RUNNING PRIME POWER (LTP):

LTP (Limited Time Prime Power) is available for a limited number of hours in a nonvariable load application. It is intended for use in situations where power outages are contracted, such as in utility power curtailment. Engines may be operated in parallel to the public utility up to 750 hours per year at power levels never to exceed the Prime Power rating. The customer should be aware, however, that the life of any engine will be reduced by this constant high load operation. Any operation exceeding 750 hours per year at the Prime Power rating should use the Continuous Power rating.

CONTINUOUS POWER RATING (COP):

COP is the power that the engine can continue to use under the prescribed speed and the specified environment condition in the normal maintenance period stipulated in the manufacturing plant. And Continuous Power is applicable for supplying utility power at a constant 100% load for an unlimited number of hours per year. No overload capability is available for this rating.

PAY ATTENTION TO THE POINTS BELOW IN PICKING AND USING THE GENERATOR

* Generators can work on Continuous Power at 70% of Prime power value if only all maintenances are done on time with original spare parts and high quality oils that manufacturer advice.

* Generators should not operate below 50% of Prime Power value. In such a case, the engine will burn excessive oil and eventually have irreparable damage.

* If your need is 1000 kVA or above, you should prefer Synchronous Systems with 2-3 generators with failure back up and simultaneous aging.

* These points will provide advantage for you with purchasing and operating the generator.

INTER Diesel Engine Power Ratings – Fuel Consumption – Oil Recommendation and Oil Grades

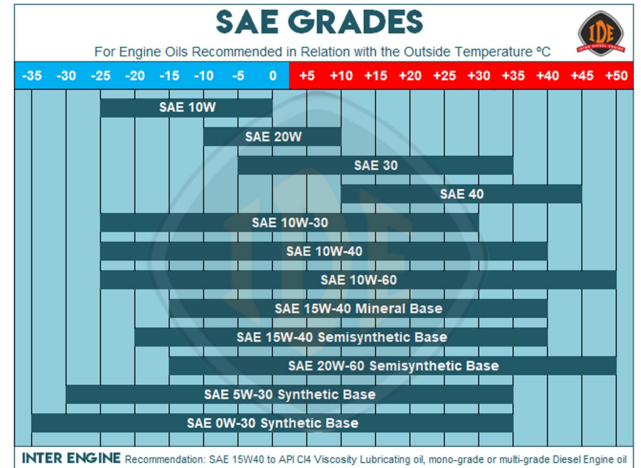
| INTER Diesel Engine Power Ratings | | | | | | | |
|-----------------------------------|--------------------|--------------------------------|------|---------------|-------|------|-------|
| Engine Model | EI24TD | Engine Family | ID12 | Engine Series | DII | | |
| Speed rpm | Type of Operation | Typical Generator Output (Net) | | Engine Power | | | |
| | | kVA | kWe | Gross | | Net | |
| | | | | kWm | Hp | kWm | Hp |
| 1500 | Stand By (Maximum) | 100,7 | 80,6 | 94,0 | 126,2 | 90,0 | 120,8 |
| | Prime | 90,6 | 72,5 | 85,0 | 114,1 | 81,0 | 108,7 |
| 1800 | Stand By (Maximum) | 108,8 | 87,1 | 101,0 | 135,6 | 97,0 | 130,2 |
| | Prime | 98,8 | 79,0 | 91,0 | 122,1 | 88,0 | 118,1 |

Generator powers are typical and are based on an average alternator efficiency and a power factor (Cos. Q) of 0.8

| Fuel Consumption | | | | |
|------------------------|----------|------|----------|------|
| Percent of Prime power | 1500 rpm | | 1800 rpm | |
| | g/kWh | l/hr | g/kWh | l/hr |
| 110% | 231 | 24,5 | 231,0 | 26,4 |
| 100% | 230 | 21,9 | 230,0 | 23,9 |
| 75% | 235 | 16,8 | 235,0 | 18,3 |
| 50% | 240 | 11,4 | 240,0 | 12,5 |

Note: The density of diesel is 0.835 kg/L

Fuel specification: BS 2669: Part 2 1998 Class A2 or (DIN EN 590) ASTM D975 D2 Diesel. The fuel must be clean and without water



Why You Should Buy GENPOWER?

Only because it is the biggest generator factory in the World? NO!

- * It is one of the most trustworthy and distinguished generator manufacturers in the world with its almost half century experience in the field.
- * It has interiorized the strategy of **unconditional customer satisfaction** and has been working with this work ethic together with its whole crew.
- * Customers and end users get their moneys' worth and more with every penny.
- * It has become a big family with customers and users who receive durable, long-lasting and high quality products.
- * It has been appreciated many times by customers and suppliers about the investments that have been made for quality enhancement.
- * Both its suppliers and customers always know GENPOWER is and will always be there for them. GENPOWER on their side in bad and good days.
- * In order not to harm brand reputation and recognition, each day, they work harder than the day before.
- * It continues its business only with the suppliers, customers, dealers and technical services that also embrace the same mind set and work ethics.
- * It proves its loyalty for quality and customer satisfaction with its mottoes "Your power is the core of our business" and "nothing will be left unfinished"
- * The specifications and/or modifications you can receive with extra costs by other manufacturers are included in standard production in GENPOWER
- * When you purchase GENPOWER products, you are not a customer or a buyer but GENPOWER perceives and accepts you as a valuable member of its continuously growing family.

These are why you should buy from GENPOWER...



Factory Address

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