

“DISCOVER THE ENERGY”

# imc

GENERATORS



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# NAVI DIESEL

## ND-55

### DIESEL ENGINE

|                    |                |
|--------------------|----------------|
| STAND BY kVA       | 55             |
| STAND BY Kw        | 44             |
| PRIME Kva          | 50             |
| PRIME Kw           | 40             |
| VOLTAGE REGULATION | 400/231        |
| POWER FACTOR       | 0,8            |
| CANOPEID SIZE      | 1000x2300x1420 |
| CANOPEIDWEIGHT     | 982            |
| OPEN SKID SIZE     | 1000x1900x1420 |
| OPEN SKID WEIGHT   | 807            |

### DIESEL MOTOR

|                           |                              |
|---------------------------|------------------------------|
| BRAND                     | NAVI DIESEL                  |
| MODEL                     | K4102ZD                      |
| ENGINE POWER STAND BY(kW) | 47                           |
| ENGINE POWER PRIME(kW)    | 42                           |
| ENGINE SPEED (rpm)        | 1500                         |
| TIME                      | 4                            |
| CYLINDER VOLUME (lt)      | 3,61                         |
| NO OF CYLINDERS AND BUILD | 4 CYLINDERS - INLINE         |
| BORE x STROKE (mm x mm)   | 100 x 115                    |
| COMPRESSION ROTE          | 19 : 1                       |
| GOVARNOR TYPE             | ELECTRONIC                   |
| ASPIRATION                | NATURALLY ASPIROTED          |
| INJECHON TYPE             | DIRECT                       |
| COOLING METHOD            | WATER COOLED - WITH RADIATOR |

## ND-55

### FUEL CONSUMPTION

|                   |      |
|-------------------|------|
| %100 LOAD (Lt/hr) | 12,4 |
| %75 LOAD (Lt/hr)  | 9,3  |
| %50 LOAD (Lt/hr)  | 6,2  |

|                             |     |
|-----------------------------|-----|
| ENGINE OIL CAPACITY (lt)    | 13  |
| COOLING WATER CAPACITY (lt) | 13  |
| FUEL TANK CAPACITY (lt)     | 101 |

### ALTERNATOR

|                    |                  |
|--------------------|------------------|
| BRAND              | İMC              |
| TYPE               | BRUSHLESS        |
| SPEED              | 1500 RPM - 50 HZ |
| ISOLOTIONCLOSS     | H                |
| PROTECTIONCLOSS    | IP 23            |
| VOLTAGE REGULATION | 400/230          |
| CONNECTION         | STAR             |
| WARNING            | SELF WARNING     |
| WINDING            | 2/3 WINDING      |

**Continuous Power**  
The maximum power which a generating set is capable of delivering continuously whilst supplying a constant electrical load. Average load can be 100%. The generator must not be overloaded.

**Standby Power**  
The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hrs of operation per year under average of 70% load. Overloading isn't permissible.

**Prime Power**  
The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

## 50 Hz Diesel Generator Sets

### Trans-Midi AMF

#### Automatic GenSet Controller with Transfer Switching

- Log last 50 events & alarm information with measured values
- Statistics records
- Mains & Generator phase sequence control
- Selectable Resistive sender types; Pt-100 VDO, US, GM, Ford, Datcon, etc...
- CanBus J1939 ECU communication
- SPN, FMI and OC values reading from engines via J1939
- Remote Start/Stop Speed and Idle mode Control via J1939
- Local Remote Control and Visualisation function



### FEATURES

|                     |   |
|---------------------|---|
| LCD Languages       | English/Chinese, English/Deutsch, English/Turkish, English/Espanol, English/Francais, English/Russian |
| Inputs              | 5x Configurable digital, 3x Analogue senders, Magnetic Pickup   |
| Outputs             | 6x Configurable transistor, Mains and Generator Contactor Outputs                                     |
| Current Measurement | 3 phases CT inputs  |
| Voltage Measurement | 3 phase mains, 3 phase generator  |

### CASE

|                  |                            |
|------------------|----------------------------|
| Dimensions       | 158mm x 111mm x 67mm       |
| Protection Class | NEMA 4X IP65 at front side |

### OPERATING RANGE

|                           |   |
|---------------------------|---|
| DC Battery Supply range   | 8 to 32Vdc, max.operating current is 370mA        |
| Sender Measurement        | 0 ... 1300 ohm, Accuracy: 1%FS, resolution: 1 ohm |
| Cabin.Temp.Measuremet     |   |
| Operating / Storage Temp. | -20°C with +70°C / -40°C with +80°C               |

### EXPANSIONS

|                     |    |
|---------------------|----|
| Internal            |    |
| GPRS                |    |
| Embedded WEB server |    |
| Serial ModBus       |    |
| Approvals           | CE |

• Technical information and values are according to ISO8528, ISO3046, NEMAMG-1.22, IEC600341, BS4999-5000, VDE0530 standards.

• Producing with ISO9001, ISO14001, OHSAS18001, TSE,CE standards.

• All information given in this leaflet is intended for general purposes only

• Due to apolicy continuous improvement IMC Generator reserves the right to amend detail s and specifications with out notice and all information given is subject to the IMC Generator's current condition of sales.

## 50 Hz Diesel Generator Sets

Trans-Midi AMF  
Automatic GenSet Controller with Transfer Switching

- CanBus J1939 ECU communication
- Selectable second language
- Log last 50 events & alarm information with measured values
- Statistics records
- Mains and Generator phase sequence contro
- Selectable Resistive sender types; Pt-100, VDO, US, GM, Ford, Datcon, etc
- Automatic transfer switching control and engine control
- SPN, FMI and OC values reading from engines via J1939



### FEATURES

|                                      |  |
|--------------------------------------|--|
| LCD Languages                        | English/Chinese, English/Deutch, English/Turkish, English/Italiano, English/Espanol, English/Francais, English/Russian |
| English / Ukrainian, English /Polish | 5x Configurable digital, 3x Analogue senders, Magnetic Pickup  |
| Inputs                               | 6x Configurable digital, 4x Analogue senders, 1x Cabinet temperature, Magnetic Pickup, Charge Alternator D+(WL) inputs |
| Current Measurement                  | 3 phases CT inputs for Load Current, 1x CT input for Earth Current   |
| Voltage Measurement                  | 3 phase mains, 3 phase generator   |

### CASE

|                  |                            |
|------------------|----------------------------|
| Dimensions       | 229mm x 152mm x 41mm       |
| Protection Class | NEMA 4X IP65 at front side |

### OPERATING RANGE

|                           |  |
|---------------------------|--|
| DC Battery Supply range   | 8 to 32Vdc, max.operating current is 360mA           |
| Sender Measurement        | 0 ... 1300 ohm, Accuracy: 1%FS, resolution: 1 ohm    |
| Cabin.Temp.Measuremet     | -50 ... +100 °C, Accuracy: 1 % FS, resolution: 1 °C. |
| Operating / Storage Temp. | -20°C with +70°C / -40°C with +80°C                  |

### EXPANSIONS

|                     |                               |
|---------------------|-------------------------------|
| Internal            | RS-485 Communication Trans-   |
| GPRS                | GPRS , Trans-Web_GPRS Trans-  |
| Embedded WEB server | Web_Ethernet Trans-           |
| Serial ModBus       | Messenger.485 module with CE, |
| Approvals           | GOST-R                        |

Technical information and values are according to ISO8528, ISO3046, NEMAMG-1.22, IEC600341, BS4999-5000, VDE0530 standards.

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### Standard Group Generator Features

- Easy operation and maintenance feature
- Automatic and Manual Operation System
- Aesthetic appearance and design
- Battery and connection cables in suitable amperage
- Motor jacket water heater
- Industrial type exhaust silencer system
- Oil drain valve and flexible fuel hoses
- Soundproof canopy (Optional)
- Vibration pads
- Various spare parts
- Service network with TSE certificate
- Test at full load for all functions for all types

**Diesel engine**  
**Alternator**  
**Sound insulation cabinet**  
**Transfer board**  
**Chassis**  
**Fuel tank**  
Water Cooled  
1500 rpm  
Insulation: H  
DSE/DKG  
Elektronik Coupler  
3 Phases  
231-400 V  
50 Hz  
IP:23 Class



**Provides  
Uninterruptible  
Power**



**Easy and  
Safe**



**High  
Performance**



**Automatic  
Circuit  
Breaker**



**Oil Warning  
System**



**Resistant**



**Economic**

### DIESEL ENGINE

- Heavy duty diesel engine
- 4 stroke - water cooled
- Dry type air filter
- 12V/24V Power system
- Engine rpm: 1500
- Tropical type radiator

### MANUEL CONTROL PANEL

- Microprocessor electronic control panel
- Relays
- Protection fuses
- 3 pole output circuit breaker

### CHASSIS

- Steel chassis
- Elastic vibration pads between engine and chassis
- Integrated fuel tank in the chassis
- Mechanical fuel gauge

### ALTERNATOR

- Automatic voltage regulator (AVR)
- Overload : % 110 for one hour  
: % 150 for 2 minutes
- Short circuit current resistance: % 300 10 seconds
- Isolation class H
- Protection class IP23
- 231 / 400 voltage
- Frequency 50 Hz

### SOUND INSULATION CABINET

- Interior cabinet lighting
- Cabinet sound insulation with non-flammable material
- Thermally insulated exhaust system  
DIN 4102,A2 standard
- Sound insulation with corrosion-resistant and moisture-repellent mineral
- Material Painted with electrostatic polyester powder coating after
- Chemical cleaning Transparent panel window for visibility of control panel

**3**

**Faze**

**50**

**hz**

**1500**

**rpm**

**4**

**stroke**

**Water**

**Cooled**

**Diesel**

**Engine**