

"DISCOVER THE ENERGY"

imc

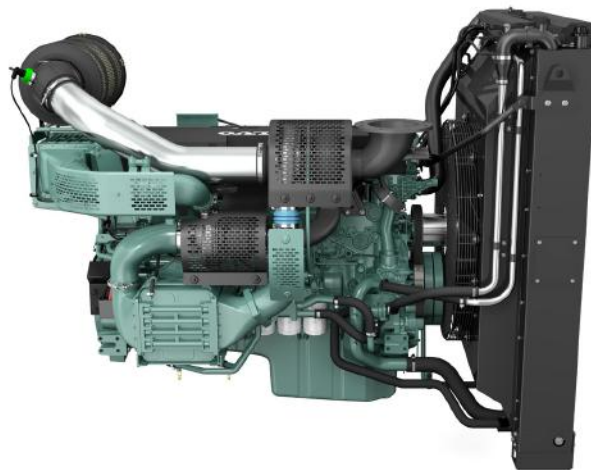
GENERATORS



www.imc.gen.tr

VOLVO

V-770



DIESEL ENGINE

| | |
|--------------------|----------------|
| STAND BY kVA | 770 |
| STAND BY Kw | 616 |
| PRIME Kva | 700 |
| PRIME Kw | 560 |
| VOLTAGE REGULATION | 400/231 |
| POWER FACTOR | 0,8 |
| CANOPEID SIZE | 1610x5300x2660 |
| CANOPEID WEIGHT | 5910 |
| OPEN SKID SIZE | 1550x3540x2250 |
| OPEN SKID WEIGHT | 4550 |

DIESEL MOTOR

| | |
|---------------------------|------------------------------|
| BRAND | VOLVO |
| MODEL | TWD1644GE |
| ENGINE POWER STAND BY(kW) | 655 |
| ENGINE POWER PRIME(kW) | 595 |
| ENGINE SPEED (rpm) | 1500 |
| TIME | 4 |
| CYLINDER VOLUME (lt) | 16,12 |
| NO OF CYLINDERS AND BUILD | 6 CYLINDERS - INLINE |
| BORE x STROKE (mm x mm) | 144 x 165 |
| COMPRESSION ROTE | 16 . 8: 1 |
| GOVARNOR TYPE | ELECTRONIC |
| ASPIRATION | NATURALLY ASIPIOTED |
| INJECHON TYPE | DIRECT |
| COOLING METHOD | WATER COOLED - WITH RADIATOR |

V-770

FUEL CONSUMPTION

| | |
|-------------------|-----|
| %100 LOAD (Lt/hr) | 138 |
| %75 LOAD (Lt/hr) | 106 |
| %50 LOAD (Lt/hr) | 75 |

| | |
|-----------------------------|------|
| ENGINE OIL CAPACITY (lt) | 48 |
| COOLING WATER CAPACITY (lt) | 151 |
| FUEL TANK CAPACITY (lt) | 1000 |

ALTERNATOR

| | |
|--------------------|------------------|
| BRAND | imc |
| TYPE | BRUSHLESS |
| SPEED | 1500 RPM - 50 HZ |
| ISOLATION CLOSS | H |
| PROTECTION CLOSS | 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/Deutch, English/Turkish, English/Espanol, English/Francals, 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, et
- 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 |
| GPRS | Trans-GPRS , Trans-Web_GPRS |
| Embedded WEB server | Trans-Web_Ethernet |
| Serial ModBus | Trans-Messenger.485 module with |
| Approvals | CE, GOST-R |

Technical information and values are according to ISO8528, ISO3046, NEMAMG-122, 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 cleaningTransparent panel window for visibility of control panel

**3
Faze**

**50
hz**

**1500
rpm**

**4
stroke**

**Water
Cooled**

**Diesel
Engine**