

"DISCOVER THE ENERGY"

imc

GENERATORS



www.imc.gen.tr

VOLVO

V-450



DIESEL ENGINE

STAND BY kVA	450
STAND BY Kw	361
PRIME Kva	411
PRIME Kw	329
VOLTAGE REGULATION	400/231
POWER FACTOR	0,8
CANOPEID SIZE	1600x4460x2550
CANOPEID WEIGHT	4240
OPEN SKID SIZE	1550x2950x1925
OPEN SKID WEIGHT	3210

DIESEL MOTOR

BRAND	VOLVO
MODEL	TAD1344GE
ENGINE POWER STAND BY(kW)	389
ENGINE POWER PRIME(kW)	354
ENGINE SPEED (rpm)	1500
TIME	4
CYLINDER VOLUME (lt)	12,78
NO OF CYLINDERS AND BUILD	6 CYLINDERS - INLINE
BORE x STROKE (mm x mm)	131 x 158
COMPRESSION ROTE	18,1 : 1
GOVARNOR TYPE	ELECTRONIC
ASPIRATION	NATURALLY ASPIROTED
INJECHON TYPE	DIRECT
COOLING METHOD	WATER COOLED - WITH RADIATOR

V-450

FUEL CONSUMPTION

%100 LOAD (Lt/hr)	81,7
%75 LOAD (Lt/hr)	6,3
%50 LOAD (Lt/hr)	42,1

ENGINE OIL CAPACITY (lt)	36
COOLING WATER CAPACITY (lt)	46
FUEL TANK CAPACITY (lt)	700

ALTERNATOR

BRAND	imc
TYPE	BRUSHLESS
SPEED	1500 RPM - 50 HZ
ISOLATION CLASS	H
PROTECTION CLASS	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 cleaning Transparent panel window for visibility of control panel

**3
Faze**

**50
hz**

**1500
rpm**

**4
stroke**

**Water
Cooled**

**Diesel
Engine**