

*"DISCOVER THE ENERGY"*

# imc

GENERATORS



[www.imc.gen.tr](http://www.imc.gen.tr)

# VOLVO

## V-650



### DIESEL ENGINE

STAND BY kVA	650
STAND BY Kw	520
PRIME Kva	592
PRIME Kw	473
VOLTAGE REGULATION	400/231
POWER FACTOR	0,8
CANOPEID SIZE	1610x4810x2620
CANOPEID WEIGHT	4970
OPEN SKID SIZE	1550x3340x2200
OPEN SKID WEIGHT	3250

### DIESEL MOTOR

BRAND	VOLVO
MODEL	TAD 1642 GE
ENGINE POWER STAND BY(kW)	554
ENGINE POWER PRIME(kW)	503
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	16.5 : 1
GOVARNOR TYPE	ELECTRONIC
ASPIRATION	NATURALLY ASPIROTED
INJECHON TYPE	DIRECT
COOLING METHOD	WATER COOLED - WITH RADIATOR

## V-650

## FUEL CONSUMPTION

%100 LOAD (Lt/hr)	118,5
%75 LOAD (Lt/hr)	87,5
%50 LOAD (Lt/hr)	58,4

ENGINE OIL CAPACITY (lt)	48
COOLING WATER CAPACITY (lt)	63
FUEL TANK CAPACITY (lt)	850

## 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**