

Picture may not show the actual product due to presence or absence of optional items



Generating set model 15F/165TEV

Overall features:

Engine:

12V electric starting
 Radiator designed to work up to 40°C ambient temperature without power deration
 Low oil pressure and high coolant temperature sensors
 Fuel filter
 Lube oil filter
 Dry air filter
 Protection grids for rotating parts
 Electronic Control Unit (ECU)
 After Treatment system (DOC+SCRof+CUC)
 Urea dosing system
 AdBlue mixer
 DPF Regeneration strategy
 Air cold heater (24Vdc)

Alternator:

4P, three phase, single bearing, brushless, self excited
 Automatic voltage regulator, digital type

Structural steel base:

Vibration dampers between engine/alternator monoblock and base frame

Fuel tank built in base frame

Set mounted AMF& ATS panel

4P MCCB 250 AH

Soundproof enclosure 69 dB ± 3 dB@ 7 m.

Connection panel with sockets

EU homologated road trailer

Documentation:

- Generating set use and maintenance manual
- Engine use and maintenance manual
- Alternator use and maintenance manual
- Generating set controller instruction manual
- Wiring diagram
- EC Declaration

Regulations and Standards:

Generating set is designed in compliance with the following regulations and standards:

- ISO 8528
- 2006/42/EC (Machinery) and subsequent amendments
- 2014/30/EU (Electromagnetic Compatibility) and subsequent amendments
- 2014/35/EU (Low Voltage) and subsequent amendments
- 2000/14/EC (Noise Emission in the Environment) and subsequent amendment 2005/88/EC
- EN 61439-1

Available on request:

Engine:

- 24V electric starting
- Oil suction pump [soundproof sets only]
- Water pre-heating [220Vac supply]

Generating set designed and manufactured in facilities certified to ISO 9001



Generating set

Prime power output (PRP)	150/ 120(KVA / kW)
Standby output (STP)	165/ 132(KVA / kW)
Power factor	0.8
Voltage	400 (V)
Frequency	50 (Hz)
Rated speed	1500 (RPM)
Current @ PRP	216,76 (A)

Fuel consumption

Fuel	Diesel EN590
Fuel tank capacity	252 l
Autonomy @ 80% of PRP	Approx. 10 h
Consumption @ full load	32,7 l/h
Consumption @ 80% of PRP	25,2 l/h
Consumption @ 50% of PRP	16,2 l/h

General features

Battery capacity	1 x 150 Ah
Voltage	12 Vdc
Air cooling delivery	4,142 m ³ /sec
Max charge air flow (intake)	690 kg/h
Exhaust gas temperature maximum @ PRP	550°C
Exhaust gas flow maximum	996 Kg/h

Standard operating environmental conditions

Temperature	25°C
Barometric pressure	100 kPa
Relative humidity	30%

Engine

Manufacturer	FPT (former Iveco)
Model	N67 TEVP06.00
Emissions	EU Stage V
Cooling	Water
Aspiration	Turbocharged
Combustion system	Direct, electronic common rail
Compression ratio	17 : 1
Regulation	ECU
Cycle	Diesel, 4 strokes
Cylinders (number and configuration)	6L
Bore x Stroke	104x132 (mm)
Displacement	6,7 l
Standby mechanical power (net)	150 kWm
Recommended lube oil	ACEA E3-E5
MAX oil sump capacity	14,7 l
Coolant capacity (engine + radiator)	27,6 l
Max Oil consumption (% of fuel)	0,3%

Alternator

Brand	MeccAlte or equivalent (Linz/Weg/Leroy Somer)
Power (kVA)	≥150
Voltage	400
Insulation	H
Mechanical protection	IP23
Regulator	AVR
Voltage accuracy	± 1 % or better
Efficiency 4/4	≥90,9 %
Type	Brushless
Poles	4

Rating definitions

Prime Power (PRP)	Prime power is the maximum power available with varying loads for an unlimited of hours. The average power output during a 24h period of operation, must not exceed 80% of the declared primo power between the prescribed maintenance intervals at standard environmental conditions. A 10% overload is available for 1h every 12h of operation.
Standby Power (STP)	Stand-by power is the maximum power available for a period of 500h/y with a mean load of 90% of the declared stand-by power. No overload is permissible for this use.

AMF & ATS control panel

Set mounted panel with:

- IntelliLite AMF25 Digital controller
- 4P Motorized rotary switches 250 AH
- Automatic battery charger
- 4P MCCB 250AH
- Residual current protection with adjustable trip threshold
- Emergency stop pushbutton



IntelliLite AMF25

IntelliLite AMF25 is an Auto Mains Failure controller for single gen-set applications and has the ability to monitor a mains supply.

Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level, the module will give comprehensive engine and alternator protection, too.

It offers a number of advanced features to meet the most demanding on-site applications.

Features:

- Intuitive user interface
- Graphic 128 × 64 pixels display
- Configurable display languages
- Configurable analogue inputs
- Configurable analogue outputs
- Configurable timers and alarms
- Setpoints adjustable via controller buttons or PC
- Password protected setting
- Automatic load transfer
- 3 Programmable maintenance alarms
- Three phase mains sensor
- Three phase gen-set & mains control
- Dual mutual standby application
- Glow plug control
- Protections disabled ability
- Engine exercise mode
- Four key menu navigation
- Magnetic pickup input
- Buttons: Cyclic forward [OFF -> MAN -> AUT ->TEST] or backward [TEST -> AUT -> MAN -> OFF] selection, horn reset, fault reset, start, stop, MCB On/Off, GCB On/Off, page scrolling, enter
- LED and display alarm indication
- Real time clock
- Load shedding, dummy load



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Rear expansion slot for the connection of one of the following plug-in cards: RS232 communication, RS232 and RS485 communication, service USB communication, Ethernet communication, GSM/GPRS modem card, Gauge driver plug-in card, Configurable I/O plug-in card, Configurable I/O plug-in card with earth fault current measurement, Remote display software, Remote annunciator, I/O extension module, Internet communication bridge, External communication module

Leds: Mains available, mains failure, generating set available, generating set failure, mains circuit breaker closed, generating set circuit breaker closed

Periodic Test: adjustable

Digital parameters:

Generator: Voltage (L-L / L-N), Frequency, Current, Power Factor (total and per phase), active power (total and per phase), kWh (total), kVAhr (total)

Engine: Speed, Coolant Temperature, Engine Battery Volts, Run hours, Fuel Level, Number of engine starts

Mains: Voltage (L-L / L-N), Frequency, kWh (total), kVAhr (total)

Indications and shutdown: Low oil pressure, high engine temperature, low fuel level, overload, gen-set under/overvoltage, under/overfrequency, failed starting, failed stop, battery under/overvoltage.

Soundproof canopy

Noise level achieved : 69 ± 3 dB(A) @ 7 m measured in open space
 or Sturdy unit construction in electrowelded steel sheet

- Sound absorbing lining of unalterable and adequately thick materials
- Ventilation silencers made up of sound-absorbing baffles
- Recessed knobs with lock
- Sealing strip on the door shutters ensure an excellent acoustic and water proofing;
- Galvanized steel hinges fastened with screws
- Hinged window for electric board, made up of safety glass, internal glass holding frame, outer boarder seal
- Appropriate paintings for indoor and outdoor installation and finishing with RAL epoxy painting
- Rainproof gratings on the ventilation openings
- Exhaust silencers



Connection panel - IP 44

Connection panel, rated IP44, installed on the side of the canopy with direct external access. The panel is designed for safe and practical distribution of auxiliary power and includes the following components:

- No. 3 single-phase sockets 230 V, 16 Ah, 2P
- No. 3 three-phase CEE sockets 400 V, 32 Ah, 5P
- No. 3 three-phase CEE sockets 400 V, 63 Ah, 5P

All outlets are individually protected by circuit breakers

Emergency stop push button, directly accessible from outside

Approved Road Trailer - 3,5 ton Gross weight

TWIN AXLE TRAILER 90 KM/H MAX SPEED.

Strong **frame** manufactured in welded steel sections of adequate sizes, reinforced in the stress points and hot deep galvanised.
 4 tyres.

Suspensions with torsion axles with rubber elements.

Inertia brakes

Fixed drawbar with 40 mm ball head coupling (option adjustable drawbar)

Fixed Parking jacks (option adjustable)

Front **adjustable jockey wheel**.

Light units and electrical installations 12 volt with cable and **7 pin plug**, ISO standard.



Approx overall dimensions and weight

L (cm)	W (cm)	H (cm)	Weight (Kg)
5195	1795	2400	4400

Technical data are not binding.
 They may be changed for technical improvements without prior notice