

continuous cooperation with life

Mobile Military Diesel Generator

MOBILE GENERATOR SETS



Genset



İŞBİR is the only and the greatest establishment in the region where it is situated and also creates solutions by meeting mobile energy needs of primarily Turkish Armed Forces and many public and private establishments through combining its past experience with modern technology.

Panels, generators and dual mobile gensets which are specially designed and produced by İŞBİR Elektrik Sanayi A.Ş. Engineers and Technicians have proven itself by achieving success in its field.

- TASMUS
- X-BAND
- ADOP
- KMS
- MHAVHS
- HERIKKS
- TOMES
- MILKAR

Mobile/ portable/ synchronized/ dual/ supplementary energy sources within the scope of aforementioned projects are being produced by İŞBİR Elektrik Sanayi A.Ş. with the purpose of modernizing combat, tactic and communication systems of Turkish Armed Forces.



TSE Quality Award



CE Certificate



K-Q TSE-ISO-EN 9000
Quality Certificate



ISO 14001:2004
Certificate



OHSAS 18001:2007
Certificate



Turkish Standards
Certificate of Conformity



TSE
Certificate of Conformance to Criteria



Service Competence
Certificate



Domestic Good
Certificate

General Features

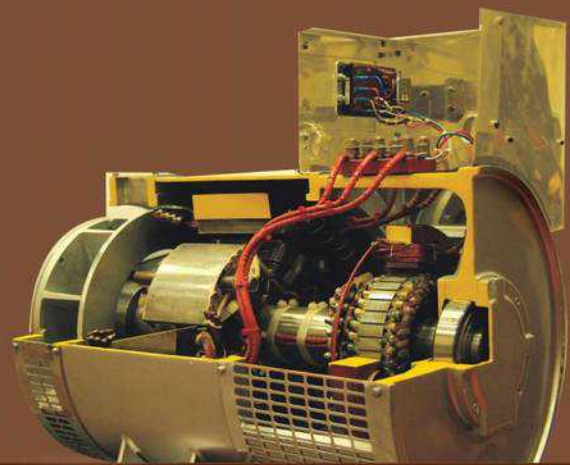
Designed and manufactured by İsbir in Turkey

- 2 x 15 kVA (2 x Purpose On Request) Mobile Dual Energy Source
- Suitable for Operation at Full Load in 7 Days/24 Hours
- Remote Control Ability
- 60 km/h high-way and 30 km/h off-road Speed Mobility
- 20 % side (z-axis) and % 60 vertical (y-axis) Pitch Angle Movability
- Transportable via Helicopter
- Maintenance Operation Ability for 2 Operators at the same time
- Fuel Tank Capacity to Operate 24 hours at Full Load
- Dual preheating system for easy start up

Generator Features

Designed and manufactured by İsbir in Turkey

- Brushless, Synchronous, Self Excited
- 230V, 50Hz, 1500 rpm , 0.8 Power Factor
- Electronically Governed
- Voltage Adjustment Potentiometer
- TS 3033, EN 60529, IP 23 Protection Class
- Dynamically Balanced Rotor System
- % 15 Max Tolerated Transient Voltage
- % 1 Max Tolerated Steady State
- % 3.5 Max Harmonic Oscillation
- TS 3336, EN 60085, H Isolation Class
- Over Excitation Protection



Ambient Conditions

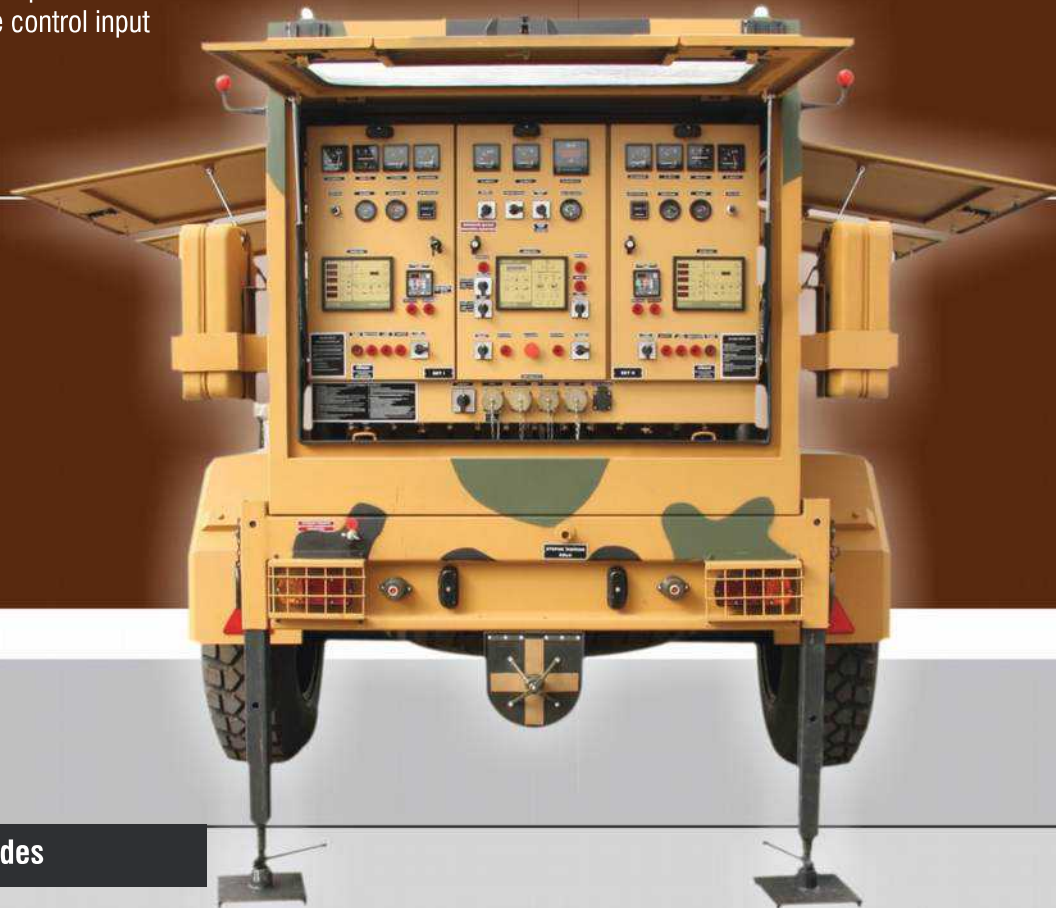
- Operating without power loss :
 - Between (-) 40 °C up to (+) 55 °C Ambient Temperature
 - At (+) 40 °C, at least 90 % relative humidity
 - 3000 meters altitude from sea level

İsbir Mobile Dual Diesel Gensets are achieved all performance tests that is fulfilled by accredited laboratory under required environmental circumstances.

Dual Synchronized Control Panel

Designed and manufactured by İsbir in Turkey

- Synchronized operation
- TS 3033, EN 60529, IP52 Control Panel Standards
- DIN VDE 530 & N VDE 0875 Radio/Frequency Interference Suppression
- Protection against electricity, radio frequency, radiation & impacts
- Operator warning signs and systems
- Self cooled battery charging unit
- Emergency Stop Button
- Maintenance of the genset while the other still under operation
- Advanced Control Unit able to detect min 90 % of the probable faults
- Duo heating control
- Feeding Facility from the Mains
- Electronic Protection for Overcharging
- Displays:
Frequency/Voltage/Current/Operating Time/Over Load/Oil Temperature/ Oil Pressure/ Fuel Level/ Battery Current/
Output Power/ Output Voltage/ Output Current
- Alarms:
Over-Low Frequency/ Over-Low Voltage/ Over-Low DC Voltage/Over Current/ Over Temperature/ Low Pressure/
Charge Failure/ Starting Failure/ Maintenance Time/ etc.
- Inputs and Outputs (Military Type)
 - 1 unit connector for mains input
 - 2 units load output
 - 1 unit remote control input



Operation Modes

1. Manual

2. Automatic

- a. In case of a faulty during the priority genset operating, the backup genset steps in and feed the load automatically
- b. The end of the adjustable operating period for priority genset, the backup genset starts, being in sync with the other, becomes priority genset and take the load over

3. Test (with load/ without load)

Trailer and Cabin Features

Designed and manufactured by İsbir in Turkey

- Rotary and flexible head wheeled trailer system according to STANAG 4101
- Connection Ring (supported by shock absorber spring system)
- 1 unit bearing wheel (folded during transportation)
- Hand brake and air brake systems to hold the trailer in safe at % 40-y axis pitch angle
- Bearing arm and/or chain based dual connection
- 12,5 x 20 tubeless tyres plus spare tyre & hang
- Shock absorber trailer system
- Telescopic balance stands for fixing
- Shock absorbed side and front covers
- Automatic thermostatic controlled air inlet louvres
- Lifting jack with special skid
- 24 V DC trailer electrical system
- Cage protected brake/park/left & right signal/black out/sizing lamps
- Round reflectors at 3 sides
- Ground water evacuation and roof rain channel systems
- Exterior rubber protection for covers
- Anti vibration type exhaust mufflers
- 80 cm water pass height from the ground
- Hose for oil and fuel operations (Mounted)
- Sand trap compact enclosure design
- Protection against corrosion and rust
- Infrared Painting



Optional Features

- Power distributing panel
- Mains connection box
- Maintenance-free gel batteries
- 50 meters power cable plus connectors and roller (conform to HD 21 or HD22)
- Chemical type fire extinguisher according to TS 862-7, EN 3-7 (2kg)
- Portable light (10 meters cable included)
- Manual & Electrical type fuel pumps
- Spare parts for 1 year maintenance (Air-Oil-Fuel Filter Set)
- Skids (2 units)
- Multi purpose maintenance tool kit



GERMAREL GmbH

Corporate Overview
“power supply to supply best power”

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