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## AGP1000

### 60 KVA DC Diesel GPU



**AGP1000** series ground support devices (GPU) are products specially designed to provide the 28.5V DC power required for the initial start-up and maintenance of aircraft engines. Thanks to its compact structure, special design and superior maneuverability, it can be operated and maintained easily with a single operator.

**AREL** -AGP series GPUs, which can produce AC and DC output at the same time as standard, have been produced after more than 30 years of AREL experience, with gasoline and diesel engine options and Arel production special alternators. With a wide range of products from 30 kVA to 180 kVA, 115/200V, 400HZ AC and 400A to 2,500A DC, AREL manufactures products to meet the needs of all aircraft and helicopters in the civil and military aviation industry.

#### ENGINE

- Made in Turkey Yavuz 3204G
- 3 cylinders, turbo
- 4 stroke
- water cooled
- Diesel
- 2,000 rpm
- 80 Hp - 58KW max. output power
- 165 g/Hp hour fuel consumption
- 2,930 cm<sup>3</sup> displacement

#### ALTERNATOR

- Arel production
- 2,000 rpm
- 24 poles, 400Hz
- Brushless
- 6 phase
- Synchronicity
- 220V AC auxiliary alternator
- IP23
- H class insulation

#### PERFORMANCE

- 60kVA
- 28.5V DC - 1.200A starting current
- 28.5V DC - 1.000A continuous current

- +/- 1% electronic voltage regulation
- +/- 10% manual voltage adjustment (inside the panel)
- 5 kVA, 23A, 220V, 67Hz, AC auxiliary output
- Idling operation

## **PANEL**

- Digital Engine Panel
  - high temp
  - low charge
  - low oil pressure
  - working time clock
  - temp gauge
  - engine running speed
- fuel level gauge
- oil warning lamp
- overtemperature warning lamp
- fuel warning lamp
- DC Digital Ammeter (2,000A, 60mV, with shunt)
- DC Digital Voltmeter (0-50V)
- AC Digital Voltmeter
- DC Start-stop button
- Ignition key
- Fuel heating button
- Start button
- eye lamps
- battery charge lamp
- Reset button
- 220V AC outlet socket
- Engine slow-fast buttons
- Various warning lights
- Automatic fuses
- Emergency stop button

## **CABIN**

- Robust construction made of steel sheet
- Electrostatic powder oven paint
- Shock absorber side covers for ease of maintenance
- Recessed and illuminated control panel protected from external influences
- Reflectors for being noticed in the dark
- Lighting headlight lamp for night work on the cabin
- Flashing lamp with diesel level warning on the cabin

## **TRAILER**

- Robust structure made of U Profile steel sheet
- double axle
- Rotatable front axle
- Parking brake, actuated by the drawbar, controlling the front wheels
- Upper lifting hook connected to the chassis
- Spring-loaded drawbar that can rotate around its own axis
- 155-R13C tire and rim
- 105A – 12V starter battery mounted with chassis
- 82 lt fuel tank integrated with the chassis
- Fire extinguisher – 6kg

## **CABLES**

- 10mt - 2x120mm<sup>2</sup> DC output cable and NATO standard DC output connector (MS 25488-27)
- Side-mounted cable carrier baskets

## **PROTECTIONS**

- Level and duration adjustable output protection system in accordance with IATA criteria for low or high voltage and high current situations
- Engine protection (oil, fuel, temperature, charge, ignition on)

## DIMENSIONS

Width – Length – Load: 160 cm – 315 cm – 160 cm.

Weight: 1.500 kg

## STANDARDS

- ISO 9001:2015
- CE
- IATA Norms
- MS 704F
- ISO 6858-2017
- SAE ARP 5015B

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