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## AGP1400

### 60 KVA AC+DC Diesel GPU



AGP1400 series ground support devices (GPU) are products specially designed to provide 115/200V, 400HZ AC and 28.5V DC power required for the initial start 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 4204G
- 4 cylinders, turbo
- 4 stroke
- water cooled
- Diesel
- 2,000 rpm
- 105 HP - 75KW max. output power
- Hybrid governor (Mechanical + Electronic) (+/- 5 rpm)
- 165 g/HP hour fuel consumption
- 3,908 cm<sup>3</sup> displacement

#### ALTERNATOR

- Arel production
- 2,000 rpm
- 24 poles
- 115/200V, 400Hz, 174 Amp.
- Brushless
- 3 phase
- Synchronicity
- 220V AC auxiliary alternator
- IP23
- H class insulation

#### PERFORMANCE

- 60 kVA, 115/200V AC, 400Hz,
- 28.5V DC - 1.600A starting current
- 28.5V DC - 1.200A continuous current
- +/- 1% electronic voltage regulation (separately for AC and DC)

- +/- 10% manual voltage adjustment (inside the panel) (separately for AC and DC)
- Less than 3% Total Harmonic Distortion (THD)
- 5 kVA, 23A, 220V, 67Hz, AC auxiliary output
- Precise speed control (+/- 1Hz)
- 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
- AC Digital Ammeter
- Digital Frequencymeter (400Hz)
- AC - Start-stop button
- DC - Start-stop button
- Ignition key
- Fuel heating button
- Start button
- eye lamps
- battery charge lamp
- Reset button
- 115V, 400Hz output socket
- 220V AC outlet socket
- AC – DC selector switch
- Engine slow - fast button
- 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
- Chassis mounted 105A – 12V starter battery
- 105 lt fuel tank integrated with the chassis
- 155-R13C tire and rim
- Fire extinguisher – 6kg

## CABLES

- 10mt - 2x120mm<sup>2</sup> DC output cable and NATO standard DC output connector (MS 25488-27)
- 15mt - 4x35mm<sup>2</sup> + 2x4 mm<sup>2</sup> AC output cable and NATO standard AC output connector (MS 25486-31)
- Side-mounted cable carrier baskets

## PROTECTIONS

- GCU (Ground power Control Unit)  
Specially designed by our company for ground support devices, GCU keeps the AC Voltage, DC Voltage, AC frequencies of the system under constant control, and if the limits determined according to IATA criteria are exceeded, it closes the output of the system within the programmed time and protects it. and gives an audible and light alarm.
- AC and DC high current protection (in case of overcurrent, it cuts the output after the specified limit and time and gives an audible and light alarm)
- Engine protection (oil, fuel, temperature, charge, ignition on)

## DIMENSIONS

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

Weight: 1.750 kg

## STANDARDS

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

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