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AGP4400

180 KVA 2xAC Diesel GPU



AGP4400 series ground support devices (GPU) are products specially designed to provide 115/200V, 400HZ AC 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

- Deutz TCD2013 L6 4V
- 6 cylinders, turbo, aftercooler
- 4 stroke
- water cooled
- Diesel
- 2,000 rpm
- 325 Hp – 243 KW max. output power
- 165 g/Hp hour fuel consumption

ALTERNATOR

- Arel production
- 2,000 rpm
- 24 poles
- 115/200V, 400Hz, 520 Amp.
- Brushless
- 3 phase
- Synchronicity
- 220V AC auxiliary alternator
- IP23
- H class insulation

PERFORMANCE

- Dual AC output

- 180 kVA
- 115/200V AC, 400Hz,
- +/- 1% electronic voltage regulation
- +/- 10% manual voltage adjustment (inside the panel)
- Less than 3% Total Harmonic Distortion (THD)
- 5 kVA, 23A, 220V, 67Hz, AC auxiliary output
- Idling operation

PANEL

- Digital Engine panel
- fuel level gauge
- Indicators and warning lamps
- AC indicators
- control buttons
- 115V, 400Hz output socket
- 220V AC outlet socket
- Emergency stop button
- Engine slow-fast 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 2x 105A – 12V starter battery
- Fuel tank integrated with the chassis
- 600x9 tires
- Fire extinguisher – 6kg

CABLES

- 15mt - 2 x 4x70mm² + 2x2,5 mm² AC output cables and NATO standard AC output connectors (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 and 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. gives a 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

DIMENSIONS

Width – Length – Load: 200 cm – 400 cm – 185 cm.

OPTION

- Different engine option

STANDARDS

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

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