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Россия +7(495)268-04-70

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AGP450

15 KVA DC Diesel GPU



AGP450 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 - 180 kVA, 400HZ AC and 115/200V, 400A - 2.500A DC, AREL manufactures products to meet the needs of all aircraft and helicopters in the civil and military aviation industry.

ENGINE

- Perkins 404D-22G
- 4 cylinders
- 4 stroke
- water cooled
- Diesel
- 1,500 rpm
- 27.6 Hp – 20.6 KW max. output power
- 175 g/hp hour fuel consumption
- 12V DC
- 2,216 liter cylinder volume

ALTERNATOR

- Arel production
- 1,500 rpm
- 16 poles, 200Hz
- Brushless
- 6 phase
- Synchronicity
- 220V AC auxiliary alternator
- IP23
- H class insulation

PERFORMANCE

- 15kVA
- 28.5V DC – 500A starting current
- 28.5V DC – 400A continuous current
- +/- 1% electronic voltage regulation
- +/- 10% manual voltage adjustment (inside the panel)

- 5 kVA, 23A, 220V, 50Hz, AC auxiliary output

PANEL

- working time clock
- fuel level gauge
- oil warning lamp
- overtemperature warning lamp
- fuel warning lamp
- DC Digital Ammeter (600A, 60mV, with shunt)
- DC Digital Voltmeter (0-50V)
- AC Digital Voltmeter
- DC Start-stop button
- Ignition key
- Fuel heating button
- Start button
- battery charge lamp
- Reset button
- 220V AC outlet socket
- 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 control panel protected from external influences
- Reflectors for being noticed in the dark

TRAILER

- Robust structure made of U Profile steel sheet
- double axle
- Rotatable front axle
- Drawbar driven brake system that mechanically locks the front wheels when parked
- Spring-loaded drawbar that can rotate around its own axis
- Chassis mounted 75A – 12V starter battery
- 60 lt fuel tank integrated with the chassis
- 4,80x4 pneumatic rubber wheels

CABLES

- 10mt – 2x70mm² DC output cable and NATO standard DC output connector (MS 25488-27)
- Cable wrap hooks on cabinet

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: 110 cm – 221 cm – 135 cm.

Weight: 850 kg

STANDARDS

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

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