



AREL®

90 kVA, 115/200V, 400HZ AC
28,5V DC – 2,000A start
28,5V DC – 1,200A continuous
AC auxiliary alternator, Diesel engine

AREL - AGP2400 series Ground Power Units (GPU), are the special designed machines for providing 115/200V, 400HZ and 28.5V DC power required for the initial movement of aircraft engines and its maintenances. By its special design, compact structure and superior maneuverability, it can be easily used and maintained with single operator.

AREL - AGP series GPUs, which can produce AC and DC outputs at the same time as standard, have been produced after more than 30 years of **AREL** experience with petrol and diesel engine options and special Arel made alternators. With a wide range of products from 30 kVA to 180 kVA, 115/200V, 400HZ and 400A to 2.500A DC, AREL is producing solutions for all airplanes and helicopters of the aviation industry.



TS EN ISO 9001:2015

AREL AGP2400

www.arel.com.tr | www.arelgroundpower.com | www.arelgpu.com

TECHNICAL SPECIFICATIONS

ENGINE

- Perkins 1106D-E70TAG3 - Stage IIIA
- 6 cylinder, turbo, water cooled
- Diesel, 1.500 rpm
- 206 Hp - 154 kW max. output power
- Electronic governor
- 203 gr/kWh fuel consumption

ALTERNATOR

- Manufactured by Arel
- 32 pole, 1.500 rpm
- 115/200V, 400Hz, 260 Amp.
- Brushless, 3 phase, synchronous
- 220V AC auxiliary alternator
- IP23, H class insulation

PERFORMANCE

- 90 kVA, 115/200V, 400Hz AC, 260A
- 28,5V DC – 2,000A peak current
- 28,5V DC – 1,200A continuous current
- +/- %1 electronic voltage regulation (seperate for AC & DC)
- +/- %10 manual voltage adjustment (seperate for AC & DC) (inside control panel)
- Less then %3 Total Harmonic Distortion (THD)
- 5 kVA, 23A, 220V, 50Hz, AC auxiliary output
- Precision speed adjustment (+/- 1Hz)

CONTROL PANEL

- Digital engine panel
- Fuel level and temperature gauge
- Gauges and indicators
- AC & DC gauges
- Control buttons
- 115V, 400Hz outlet socket
- 220V AC outlet socket
- Emergency stop button

CANOPY

- Sturdy construction made of steel sheet
- Electrostatic powder coated
- Side covers with spring bars for easy maintenance
- Built-in illuminated control panel
- Reflector signs
- Projector for night operations
- Low fuel beacon

TRAILER

- Robust construction
- Double axle
- Swiveling front axle (5th wheel steering)
- Towbar activated mechanical brake system for front tires
- Built-in lifting hook on top
- Rotatable towing hook with spring
- 197 lt base fuel tank
- 195 50R 13C tires and rims
- Fire extinguisher – 6kg

OUTPUT CABLES

- 10mt - 2x120mm² DC output cable and DC connection socket in compliance with NATO standards (MS 25488-27)
- 15mt - 4x70mm² + 2x2,5 mm² AC output cable and AC connection socket in compliance with NATO standards (MS 25486-31)
- Cable baskets mounted on sides

PROTECTIONS

- GCU (Ground Power Control Unit)
Specially designed for ground support devices by AREL, GCU keeps the AC Voltage, DC Voltage and AC Frequency of the system under constant control. If system exceed the limits which determined according to IATA criteria, it turns off the output and protects the system within the programmed time and gives an audible - light alarm.
- AC and DC high current protection (turn off the output within adjustable limit and duration and gives an audible - light alarm in case of over current)
- Engine protection (oil, fuel, engine temperature, charge, starter key on)

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Diesel engine

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STANDARDS

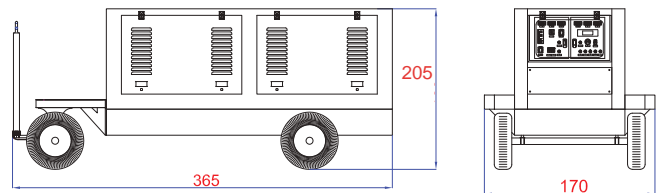
- ISO 9001:2015
- CE
- IATA norms
- MS 704F
- ISO6858-2017
- SAE ARP5015B

OPTIONALS

- Large fuel tank
- 28V / 56V DC output
- Various engine options

DIMENSIONS and WEIGHT

Width	170 cm
Length	365 cm
Height	205 cm
Weight	2.700 kg



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HEAD OFFICE

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