



AREL®

**180 kVA
Dual AC output
AC auxiliary alternator
Diesel engine**

AREL - AGP4400 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
AGP4400**

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

TECHNICAL SPECIFICATIONS

ENGINE

- Deutz TCD2013 L6 2V - Stage IIIA
- 6 cylinder, turbo, aftercooler, water cooled
- Diesel, 2,000 rpm
- 268 Hp – 200 KW max. output power
- 165 gr/hp fuel consumption

ALTERNATOR

- Manufactured by Arel
- 24 pole, 2,000 rpm
- 115/200V, 400Hz, 520 Amp.
- Brushless, 3 phase, synchronous
- 220V AC auxiliary alternator
- IP23, H class insulation

PERFORMANCE

- Dual AC output
- 180 kVA, 115/200V, 400Hz AC
- +/- %1 electronic voltage regulation
- +/- %10 manual voltage adjustment (inside control panel)
- Less than %3 Total Harmonic Distortion (THD)
- 5 kVA, 23A, 220V, 67Hz, AC auxiliary output
- Idle operation (no load)

CONTROL PANEL

- Digital engine panel
- Fuel level gauge
- Gauges and indicators
- AC gauges
- Control buttons
- 115V, 400Hz outlet socket
- 220V AC outlet socket
- Emergency stop button
- Engine speed low-high 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
- Base fuel tank
- 195 50R 13C tires and rims
- Fire extinguisher – 6kg

OUTPUT CABLES

- 15mt - 2 each 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 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 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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STANDARDS

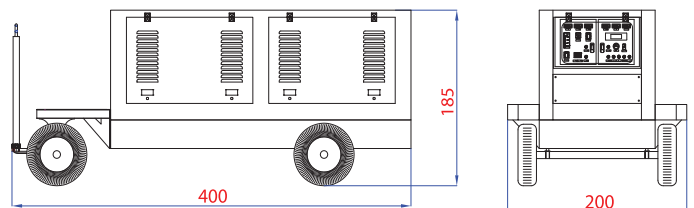
- ISO 9001:2015
- CE
- IATA norms
- MS 704F
- ISO6858-2017
- SAE ARP5015B

OPTIONALS

- DC output
- 28V / 56V DC output
- Various engine options

DIMENSIONS and WEIGHT

Width	200 cm
Length	400 cm
Height	185 cm
Weight	2.800 kg



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HEAD OFFICE

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