

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Уда (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://arel.nt-rt.ru/> || [aeh@nt-rt.ru](mailto:aeh@nt-rt.ru)

## AGP1450

### 50 kVA AC+DC Diesel Compact GPU



**AGP1450** 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 special design and superior maneuverability, it can be used easily with a single operator and can easily perform maintenance. Thanks to their compact structure, Sikorsky can be transported by helicopters.

**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 3204G
- 3 cylinders, turbo
- 4 stroke
- water cooled
- Diesel
- 2,000 rpm
- 68 Hp - 50KW max. output power
- Hybrid governor (Mechanical + Electronic) (+/- 5 rpm)
- 165 g/Hp hour fuel consumption
- 2,930 cm<sup>3</sup> displacement

#### ALTERNATOR

- Arel production
- 2,000 rpm
- 24 poles
- 115/200V, 400Hz, 145 Amp.
- Brushless
- 3 phase
- Synchronicity
- IP23
- H class insulation

#### PERFORMANCE

- 50kVA
- 115/200V, 400Hz AC

- 28.5V DC - 1.400A starting current
- 28.5V DC - 1.000A 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)
- Precise speed control (+/- 1Hz)
- Idling operation

## **PANEL**

- working time clock
- fuel level gauge
- temp gauge
- DC Digital Ammeter (2,000A, 60mV, with shunt)
- DC Digital Voltmeter (0-50V)
- AC Digital Ammeter
- AC Digital Voltmeter
- Digital Frequencymeter (400Hz)
- AC start-stop button
- DC start-stop button
- Ignition key
- Fuel heating button
- Start button
- Fault warning lamps
- Reset button
- DC output terminal
- 115V, 400Hz output socket
- AC – DC selector switch
- Engine slow-fast button
- Automatic fuses
- Emergency stop button

## **CABIN**

- Robust construction made of steel sheet
- compact design
- Electrostatic powder oven paint
- Removable covers for ease of maintenance
- Recessed control panel protected from external influences
- Lighting headlight lamp for night work on the cabin

## **TRAILER**

- Robust structure made of U Profile steel sheet
- Double axle with ball joint system that can rotate +/-30°
- Parking brake, actuated by the drawbar, controlling the rear wheels
- 2 x 75A – 24V starter batteries mounted on the chassis
- Chassis mounted 68 lt fuel tank
- 4,80x4 pneumatic rubber wheels

## **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)
- Cable wrap hooks on cabinet

## **PROTECTIONS**

- GCU (Ground power Control Unit)  
Specially designed for ground support devices by our company, GCU keeps the AC Voltage, DC Voltage, AC Frequencies of the system under constant control and if the limits set 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: 126 cm – 165 cm – 115 cm.

Weight: 1,200 kg

## STANDARDS

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

**Алматы** (7273)495-231  
**Ангарск** (3955)60-70-56  
**Архангельск** (8182)63-90-72  
**Астрахань** (8512)99-46-04  
**Барнаул** (3852)73-04-60  
**Белгород** (4722)40-23-64  
**Благовещенск** (4162)22-76-07  
**Брянск** (4832)59-03-52  
**Владивосток** (423)249-28-31  
**Владикавказ** (8672)28-90-48  
**Владимир** (4922)49-43-18  
**Волгоград** (844)278-03-48  
**Вологда** (8172)26-41-59  
**Воронеж** (473)204-51-73  
**Екатеринбург** (343)384-55-89

**Иваново** (4932)77-34-06  
**Ижевск** (3412)26-03-58  
**Иркутск** (395)279-98-46  
**Казань** (843)206-01-48  
**Калининград** (4012)72-03-81  
**Калуга** (4842)92-23-67  
**Кемерово** (3842)65-04-62  
**Киров** (8332)68-02-04  
**Коломна** (4966)23-41-49  
**Кострома** (4942)77-07-48  
**Краснодар** (861)203-40-90  
**Красноярск** (391)204-63-61  
**Курск** (4712)77-13-04  
**Курган** (3522)50-90-47  
**Липецк** (4742)52-20-81

**Магнитогорск** (3519)55-03-13  
**Москва** (495)268-04-70  
**Мурманск** (8152)59-64-93  
**Набережные Челны** (8552)20-53-41  
**Нижний Новгород** (831)429-08-12  
**Новокузнецк** (3843)20-46-81  
**Ноябрьск** (3496)41-32-12  
**Новосибирск** (383)227-86-73  
**Омск** (3812)21-46-40  
**Орел** (4862)44-53-42  
**Оренбург** (3532)37-68-04  
**Пенза** (8412)22-31-16  
**Петрозаводск** (8142)55-98-37  
**Псков** (8112)59-10-37  
**Пермь** (342)205-81-47

**Ростов-на-Дону** (863)308-18-15  
**Рязань** (4912)46-61-64  
**Самара** (846)206-03-16  
**Санкт-Петербург** (812)309-46-40  
**Саратов** (845)249-38-78  
**Севастополь** (8692)22-31-93  
**Саранск** (8342)22-96-24  
**Симферополь** (3652)67-13-56  
**Смоленск** (4812)29-41-54  
**Сочи** (862)225-72-31  
**Ставрополь** (8652)20-65-13  
**Сургут** (3462)77-98-35  
**Сыктывкар** (8212)25-95-17  
**Тамбов** (4752)50-40-97  
**Тверь** (4822)63-31-35

**Тольятти** (8482)63-91-07  
**Томск** (3822)98-41-53  
**Тула** (4872)33-79-87  
**Тюмень** (3452)66-21-18  
**Ульяновск** (8422)24-23-59  
**Улан-Удэ** (3012)59-97-51  
**Уфа** (347)229-48-12  
**Хабаровск** (4212)92-98-04  
**Чебоксары** (8352)28-53-07  
**Челябинск** (351)202-03-61  
**Череповец** (8202)49-02-64  
**Чита** (3022)38-34-83  
**Якутск** (4112)23-90-97  
**Ярославль** (4852)69-52-93

**Россия** +7(495)268-04-70

**Казахстан** +7(7172)727-132

**Киргизия** +996(312)96-26-47

<https://arel.nt-rt.ru/> || [aeh@nt-rt.ru](mailto:aeh@nt-rt.ru)