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ADP4000

90 KVA 2xDC Electric GPU



ADP4000 series dynamic type ground support devices (GPU) are designed to provide the 28.5V DC power they need for the initial movement and maintenance of aircraft engines, inside or outside the hangar, with an electric asynchronous motor. It is environmentally friendly with its silent structure and zero exhaust emissions. Thanks to its compact structure and superior maneuverability, it can be used easily with a single operator.

AREL -ADP series GPUs, which can produce AC and DC output at the same time, have been produced with AREL production synchronous electric motors and Arel special alternators with more than 30 years of experience. With a wide range of products from 15 kVA to 90 kVA, 115/200V, 400HZ AC and 400A to 4,000A DC, AREL manufactures products to meet the needs of all aircraft and helicopters in the civil and military aviation industry.

ENGINE

- 110kW
- 1,500 rpm
- Star delta operation + Soft-start feature (low current starting)
- 380V, 204A
- asynchronous
- IP23
- H class insulation

ALTERNATOR

- Arel production
- 32 poles
- 1,500 rpm
- 400Hz
- 6 phase, 24 diode output
- Dual DC output
- Brushless
- Synchronicity
- IP23
- H class insulation

PERFORMANCE

- 90kVA
- double output
- 2 x 28.5V DC - 2.000 A starting current

- 2 x 28.5V DC - 1.500 A continuous
- +/- 1% electronic voltage regulation
- +/- 10% manual voltage adjustment (inside the panel)

PANEL

- Fault warning lamps
- Reset button – illuminated
- working time clock
- AC Digital Ammeter (motor)
- AC Digital Voltmeter (mains)
- Engine start-stop button - illuminated
- Control lamps
- Emergency stop button

DC Output

- Start – stop buttons – illuminated
- 1 DC Digital Voltmeter
- 2 x DC Digital Ammeters (2,000 A, 60mV, with shunt)
- eye lamps

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

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
- 195-R13C tire and rim

CABLES

Input Cable

- 20mt - 5x25mm²

Output Cable (2 sets)

- 10mt - 2x120mm² DC output cable and NATO standard DC output connector (MS 25488-27)
- Cable carrying baskets mounted on the chassis on the sides,

PROTECTIONS

- DC high current protection (in case of overcurrent, it cuts the output at the end of the specified limit and time and gives an audible and light alarm)
- Level and duration adjustable output protection system in accordance with IATA criteria for DC low or high voltage situations

DIMENSIONS

Width – Length – Load: 170 cm – 345 cm – 160 cm.

Weight: 2,250 kg

OPTIONS

- 56V DC output

STANDARDS

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

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