

HYBRID RECTIFIER UNIT

APA-10

An exceptional small Hybrid Diesel 28VDC GPU APA-10 for business jets and helicopters. APA-10 specially designed for operation on diesel and Jet fuel. It is an excellent solution for providing 28,5V for helicopter facilities and aviation training centers. APA-10 is hybrid type GPU, equipped with diesel engine for continuous power and batteries for engine starting mode. Lightweight and maneuverable unit is perfect for indoor and outdoor usage. Its relatively small size and extreme agility allows bringing the rectifier to any desired position. The elegant casing is made out of composite material, providing it long life and comfort to the user. The intuitive interface is user-friendly, making the GPU easy to control. Equipped with highly durable chassis and mechanical breaking system, this GPU is well prepared for heavy duty and harsh conditions.

The Ultra Green Power Solution Diesel engine driven GPU series APA is designed to reduce CO₂ emissions with its unique technical characteristics.

Solutions today take care of the future.



MAIN TECHNICAL PARAMETERS

APA-10 Hybrid Rectifier unit

General

- ✚ Ambient operation temperature: -40 to +50°C
- ✚ Humidity: 10 – 100%
- ✚ Casing color: white
- ✚ Noise level: according to international standards
- ✚ Casing material: composite material
- ✚ Forklift pockets: yes
- ✚ Lighting: during APA operation
- ✚ Clearance, mm: 218
- ✚ Warranty: 24 months
- ✚ Parking brakes: yes, drawbar upright position
- ✚ Protection class: IP 55
- ✚ Weight, kg: 610
- ✚ Dimensions, LxWxH, mm: 1650 x 1000 x 1200

Engine parameters

- ✚ Power, kVA: 8.4
- ✚ Engine: 2 stroke, electrical starter
- ✚ Engine speed, rpm: 3000
- ✚ Fuel consumption, l/h: 6,3
- ✚ Fuel tank capacity, l: 35
- ✚ Engine electric circuit: 12V
- ✚ Displacement, cm³: 954
- ✚ Oil capacity, l: 3
- ✚ Speed governor: mechanical
- ✚ Compatible fuel types: Diesel, Kerosene based jet fuels* (JP-5, JP-8 Jet A-1, Jet A ASTM D1655, NATO F-34 have to be mixed with motor mineral oil in a ratio of 1:40)

Integrated battery for hybrid

- ✚ Number of batteries: 2
- ✚ Nominal voltage, V: 4 x 6
- ✚ Nominal capacity, Ah: 230
- ✚ Weight, kg: 76,5
- ✚ Installed Battery Charger

Output parameters

- ✚ DC outputs: 1
- ✚ Rated output voltage, V: 28,5
- ✚ Rated output current, A: 300
- ✚ Peak current**, A: 2000
- ✚ Overload, %: 100-112
- ✚ Line drop compensation
- ✚ 230V 50Hz 16A output socket

Control panel

Output voltage, current, error indicator, start/stop, engine parameters, low fuel, emergency stop buttons

Protection

- ✚ Overheat
- ✚ Over/low voltage
- ✚ Overload
- ✚ Short circuit
- ✚ Engine overheat
- ✚ Engine over speed
- ✚ Emergency stop

Documentation

- ✚ User + service manuals
- ✚ Engine Spare Parts Catalogue
- ✚ Passport
- ✚ Warranty certificate

Optional: extra payment items

- ✚ Solenoid
- ✚ Fuel filter
- ✚ Oil filter
- ✚ Air filter
- ✚ Oil separator
- ✚ Wheel with tire
- ✚ Power supply plug
- ✚ Battery
- ✚ Basic OVM tool kit

***Compatible fuel types** - Jet fuels with lower lubricity characteristics will prematurely wear FIE and engine components. Therefore, FIE parts are not covered under our standard warranty.

****Peak current** - 2000A is a theoretical instant short circuit current across the battery terminals. The maximum amperage that will be delivered by the GPU to the aircraft's external power connection is significantly reduced due to cable length, cable size and duration of power. If using Jet A1, JP8 or similar, some loss of power will occur compared to diesel due to jet fuel's lower calorific value.

Norms, standards and directives that we follow:

ISO6858, ISO1540, BS 219, MIL-STD-704F, EN 62040-1, EN 61000-6-4, EN 61000-6-25, EN61558-2-6, EN 2282, EN 1915-1, SAEARP 50 15, IEC 60721, IEC 60529, DFS400, GOST 54073-2010, ISO 9001:2008, ISO 14001:2004, OHSAS 18001, 2014/35/EU, 2004/108/EC

Available in Romania through Authorised Dealer Regional Air Suport (Pilotshop.ro)
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