

AIRCRAFT GROUND POWER UNIT

Diesel Engine Driven

Model: GPU-D-60KVA-28VDC-300, NSN: 2815-01-597-1322

60 kVA, 115/200 VAC, 400 HZ, 3-phase, 28 VDC, 300 Amp continuous
Compact, Deployable, Reliable for present and future aircraft



Hydraulics International, Inc. designs and manufactures 60KVA diesel generated AC 400HZ and 28 VDC power units built for rugged military demand and environment with high performance. The system configuration is based on the most reliable and suitable state-of-the-art control and monitor technology with ease of operation and diagnostics in mind. The system is easy to operate, intuitive with an interactive data display and requires very low maintenance. The HII GPU provides the user with required maintenance power, automated built-in and diagnostic test features. The Cummins QSB 4.5, 155 HP, Tier III engine is quiet and efficient combined with a 400HZ generator with superior regulation.



HYDRAULICS INTERNATIONAL, INC.

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Features

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| <ul style="list-style-type: none"> • Low emission by using a diesel engine that meets the EPA TIER III requirements • Multi-fuel engine operates with all DF-1, DF-2, JP-4, JP-5 and JP-8 • Low profile and narrow structure provides better air transportability, can be forklifted or sling loaded • Heat exchanger and cooling system for the engine and electrical/electronic system is designed for high ambient temperature • Low noise emission | <ul style="list-style-type: none"> • Large stainless steel fuel tank for long hours of operation • Lift-off doors all around the unit provide full and easy access for inspection and maintenance. • AC generator is brushless synchronous type alternating current and is equipped with an automatic solid state voltage regulator • Superior frequency regulation via electronic controlled engine governor system • This GPU incorporates a state-of-the-art computer technology to provide friendly user interface control, monitoring and diagnostic |
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Leading Particulars

ITEM	CHARACTERISTICS
Rating: AC Output	60 kVA, 400 HZ, 3 phase, 4 wire, 115/200 VAC continuous
DC Output	28 VDC, 300 Amp continuous, 1000 Amp peak for 30 seconds
Electrical	
Overload	125% rated load for 5 minutes and 150% rated load for 30 seconds
Voltage	1.0% harmonic maximum
Regulation	0.5% voltage regulation
Frequency	± 2 Hz steady rate regulation and 1 Hz modulation
Protection.....	Indicate alarm and/or turn off output contactor for Under-voltage/Over-voltage, Under-frequency/Over-frequency, according to MIL-STD-704F
Operating Conditions	
Ambient temperature range	-40°F to +120°F
Altitude	Sea level to 10000 feet
Relative humidity.....	0% to 100%
GPU operating position	Up to 8 1/2° from horizontal
Overall Physical Characteristics	
Size	Height: 58", width: 52" and length: 110"
Wet weight	4000 lbs approximately
Brakes.....	Drum type brake, hand operated
Road clearance.....	8 inches
Tow speed	20 mph max over improved roads
Steering angle.....	40°
Drive unit	
Engine.....	156 HP, electronic controlled, turbo charged, after-cooled engine, four cylinder, direct injection,
Battery.....	24 VDC, two 12 VDC, free maintenance dry gel type
Safety Features.....	Low fuel shutoff, low oil pressure shutoff, high coolant temperature shutoff, electronic governor system and speed limiting protection
Cold temperature	Automatic engine intake heater for cold temperature operation



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