

Diamond Power Systems. Specifications



APU Specifications

Engine	14 Hp, 2 Cylinder, Water cooled, Diesel
Bore X Stroke	2.64" X 2.68"
Rated Power	6.5 KW @ 2600RPM
Fuel Consumption	.157 (20.07 oz) to 0.54 G/Hr (69.12 Ounces/Hr) based on load
Electrical Draw	AC: 4 kW DC: 0.8 kW
Exhaust Temp	860°F
Engine Oil	0.793G/3.0L (Use any API Service CF, CF-4, CG-4 or CH-4 oil)
Valve Clearance	0.2-0.3mm
Engine Compression	300 PSI (2.0 MPa)
Starter	160 Cranking Amps
Noise Level (dB)	70 dB
Alternator	60 Amp @ 14 V DC
Generator	35 Amp @ 120V AC
Oil Pressure Switch	7.1 ~ 142.2 psi (0.5 ~ 10 kgf/cm2)
Overheat Switch	Close at 203°F
Intake & Ex. Valves	Intake: .26mm Ex.: .22.5mm
Belt Tension	Alternator: 45-55 ft-lb (61-75 N-M) Generator: 70-80 ft-lb (95-108 N-M)
Thermostat	Starts to open at 160°F and fully open at 185°F
Weight	185lb @ Engine, 330lb @ APU
APU Dimensions	26" L X 21" D X 29" H
Condenser Dimensions	31.22" x 17.5" x 8.82"
Control Dimensions	6.3" x 3.94" x 1.18"

HVAC Specifications

Air Conditioning	10000 BTU/hr
System capacity	64-68 oz of R-134A
System oil capacity	14 oz of PVE (Polyvinylether)
Compressor	6-10 Amp @ 120V
Condenser Fan	9-12 Amp
Binary Pressure Switch	Normally closed between 26-335 psi
Operating Pressures	Low side 24-45 psi, High side 110-250 psi
Heat	5000/10000 BTU/hr (Low/High)
Heater Draw	5K BTU - 1.3 kW, 10K BTU - 3.9 kW
Speed Resistor	25 Ohms
Heating Coils	10 Ohms each - dual
Thermo Fuse	Blows at 307.4°F (152°C)
Weight	100lb
Dimensions (HVAC)	24.41" X 15.75" X 12.80"



Auxiliary Power Unit

Diamond Power Systems • 888.896.6881 US • 866-882-8088 Canada
www.diamondpowersystems.com

Inside Spread

With a Diamond Power Systems APU, you can turn off your engine, turn on the comfort, and turn down your operating costs. Externally mounted on the side-rail, the Diamond Power APU is protected in its own weatherproof compartment and runs off the truck's fuel supply. The diesel-powered APU saves fuel, runs quieter than the truck engine, reduces emissions, and provides reliable, all-night comfort for the driver.

Diamond Power Systems. Start saving.



The Diamond APU saves fuel, and keeps you up to date with the law, because you don't need to idle your engine to run it. It uses diesel fuel, right out of your trucks fuel tank. The APU mounts to the side-rail of your rig and is protected by a weather-proof enclosure. Day or night, in hot or cold routes, the Diamond Power APU keeps you comfortable, while keeping operating costs low. With its economical installation costs, 2 year nationwide warranty service & parts plan, Diamond Power has thought of everything. They've built their APU around a driver's life on the road, and they've given them the most important feature of all... peace of mind.

- The Diamond Power APU**
- Runs sleeper air conditioning
 - Runs sleeper heating
 - Runs cabin household accessories
 - Recharges your truck's batteries
 - Warms the engine
 - Monitors the batteries' charge

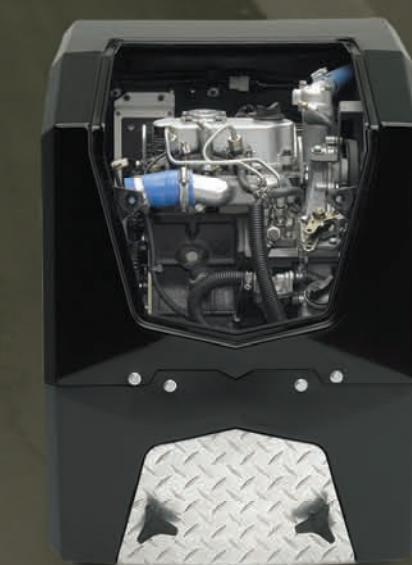


The Diamond Power APU is a fully contained auxiliary power unit in an easy-to-access and service, shock-resistant, weatherproof compartment that mounts directly to the frame rail.



Driver's Control Panel
Diamond Power's advanced "Co-Pilot Design" control panel gives the driver easy access to control all features including start/stop, and heat and air conditioning from inside the cab or sleeper.

Weathertight, removable panels provide immediate access to serviceable components.



Condenser
Part of the air conditioning system, connected to the evaporator and located outside the truck.



Driver's Control Panel
Located inside the cab or sleeper, displays all settings and makes it easy to set automatic controls.



APU Contains the two-cylinder diesel engine and AC & DC electrical power generation

HVAC Part of the HVAC system, includes fan blower, compressor and heater, located inside the truck, typically under the sleeper in the storage compartment

