



Ground Power Unit

***NEW* 282000 Series Ground Power Unit**

282000 28.5 VDC: 800 Amps Continuous, 2000 Amps Peak

282500 28.5 VDC: 800 Amps Continuous, 2500 Amps Peak

Arvico is now "Arvico A Tronair Company" with the backing of Tronair's service and reputation. Arvico's long history and experience in 28.5VDC GPU's, 400Hz GPU's and air start units teamed with Tronair's exceptional engineering, manufacturing and customer service create a GSE powerhouse that is the best in the business. Arvico A Tronair Company is ready to serve both new and existing customers with parts, service and equipment.

The 282000 series GPU provides a dynamic DC supply in a rugged, compact, maneuverable unit. Our patented design supplies instantaneous power to your aircraft eliminating damaging full load power drop off. A single customized solid-state electronic module controls all electronic functions eliminating multiple circuit boards. The uniquely designed modular instrument panel is contained in one pull out drawer that is removable as a unit.



The Instrument Panel is a pull out assembly module and replaceable as a unit. It includes access to cable interlock, engine speed and gain, plus diagnostic test button for over voltage, and overload protection with a reset button.

***NEW* FEATURES:**

- Breakaway cable design reduces equipment damage if cable is left in the aircraft.
- Alternator excitation test switch.
- Large format digital display.

STANDARD FEATURES:

- Provides dynamic DC supply in a rugged, compact maneuverable unit.
- Cable head sensing line drop compensation ensures full power is provided to aircraft.
- Adjustable peak current limiting control.
- 360° high strength steel bumpers surround unit for added protection
- Access doors can be removed in less than five minutes.
- Fifth wheel steering with towbar operated brakes.
- Weather resistant steel canopy.
- White powder coated Skydrol resistant paint
- Generous cable tray makes for easy cable stowage even for optional longer cables
- Produces up to 800 amperes continuous to 2000 amperes peak for starting.
- Sound proofing.
- Diesel engines use diesel or Jet A fuel.
- High efficiency single bearing 21 VAC alternator.
- One PC Board warranty.
- Forklift pockets.
- Cable head interlock.

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DESIGN SPECIFICATIONS:

ENGINE

- Cummins B3.9-C99 turbocharged, water cooled
- Solid State electronic governor for speed control
- 24 VDC system starter & alternator provide excellent starting characteristics
- Eight hour fuel tank
- 2 – 12 volt maintenance free batteries

ENGINE PROTECTION

- High coolant temperature shut down
- Low oil pressure shut down
- Over speed shut down governor
- Intake filter element status indicator
- Emergency stop
- Automatic low oil pressure bypass during starting

CONTROL PANEL FEATURES

- Output voltmeter and ammeter
- Power "ON" / Power "OFF" select with lamp test position
- Engine gauges include water temperature, oil pressure, fuel level, voltmeter, hourmeter and tachometer
- Power "ON" lamp
- Push button engine start switch
- Engine idle/run switch
- DC "ON" / "OFF" selector switch
- DC "ON" lamp
- Emergency stop button
- Fault lights for over/under voltage, over load, high engine temperature, low oil pressure, and low fuel
- Fan belt break(option)
- Circuit Breakers
- Excitation Transformer
- Solid State Governor

PERFORMANCE

- 28.5 VDC output
- 800 amps continuous power rating
- Adjustable 2000 amps peak power rating
- Option adjustable 2500 amps peak power rating
- Soft start", adjustable current limiting by percent of peak current.

OUTPUT

- Cable head sensing standard
- Interlock on DC cable assembly
- Automatic over volt trip at 32 volts
- 25 ft output cable standard

ENVIRONMENTAL

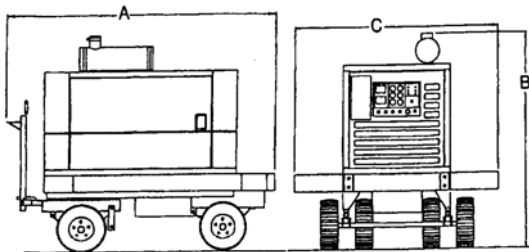
- Standard 82 dBA, 4 feet above ground, 10 feet from instrument panel
- Operating temperature range is -25°F to +125°F (-31°C to + 52°C)
- Low ECE emissions
- Low acoustic signature

STANDARD FEATURES

- Front axle fifth wheel steering
- Towbar actuated brake system
- White powder coated Skydrol resistant high gloss paint (custom colors available)

OPTIONS

- Perkins engine
- Special color paint
- 40 ft output cable
- Fire extinguisher
- Four corner amber lights
- Strobe operating light
- Coolant heater
- Battery heating pads
- Fan belt break shut down
- Low coolant switch



DIMENSIONS & WEIGHT

MODEL	A in (cm)	B in (cm)	C in (cm)	Weight lb (kg)
282000C	102 (259)	76 (193)	72 (183)	2200 (998)
282500C	102 (259)	76 (193)	72 (183)	2300 (1043)