

# Jet-Ex<sup>®</sup> 4D

## Diesel Ground Power Unit

### Description

The Hobart Jet-Ex 4D provides powerful DC performance in a compact, easy-to-handle unit. The rugged 28 volt DC unit features a 4.236 Perkins industrial diesel engine and Hobart alternator/rectifier technology for maximum reliability on today's busiest flightlines.

The Jet-Ex 4D features easy-to-access engine and generator to maximize efficiency and minimize preventive maintenance service time.

### Standard Features

- ◆ Durable, all-welded formed steel frame with weather-resistant canopy
- ◆ Powered by a 4.236 Perkins industrial engine
- ◆ Reliable, high-efficiency AC rectified alternator
- ◆ Hobart adjustable current limiting "soft start" control
- ◆ Non-corrosive, plastic fuel tank
- ◆ Protectoseal fuel filler cap
- ◆ Line drop compensation
- ◆ Easy-to-access engine and generator
- ◆ Low profile permits clear visibility
- ◆ Lifting eye
- ◆ Tie down slots
- ◆ Current limit



### Control Panel

#### Features include:

- ◆ Generator
  - voltmeter
  - ammeter
  - contactor controls
- ◆ Engine
  - oil pressure gauge
  - water temperature gauge
  - tachometer
  - ammeter
  - starting controls
- ◆ Hour meter
- ◆ Current limiting adjustment
- ◆ Controls use circuit breakers; no fuses required
- ◆ Lexan panel protects engine and generator controls





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## Specifications

### Engine

- ◆ 4.236 Perkins industrial diesel engine; 70 hp at 2000 rpm
- ◆ Fuel tank capacity allows 10 hours operation at rated load requiring only one fill per work shift
- ◆ Low oil pressure shutdown, high water temperature shutdown, and high speed limiting provide full engine protection
- ◆ Starter cutout prevents engaging the starter while the engine is running
- ◆ Single, maintenance-free 875 CCA battery

### Environmental

- ◆ Nominal noise level of 81dBA at 7 meters distance, measured 1.5 meters above ground
- ◆ Operating temperature range of -25°F to +125°F

### Performance

- ◆ 28.5 volts DC voltage output
- ◆ 550 amperes continuous rating at 28.5 volts DC (550 amperes nominal maximum for aircraft cables)
- ◆ Current limiting "soft start" adjustable from 300 amps. at 28.5 volts to 2000 amperes at 20 volts (at the ground power unit terminals)
- ◆ Line drop compensation assures proper voltage at aircraft
- ◆ Automatic voltage build up in generator for reliable power

### Compliance Standards

- ◆ Voltage regulation, voltage ON transients, and AC Ripple content meets Mil Std. 704D
- ◆ Meets BS2G219 for ON load transients; 20 volts @ end of 30', 4/0 size cable at 1600 amperes
- ◆ Conforms to ARP1247B
- ◆ Operating Manual conforms to ATA 101 and AEA formats

### Displays/Instrumentation

- ◆ Panel lights
- ◆ Lexan clearance lights
- ◆ Output voltmeter and ammeter
- ◆ Engine start switch
- ◆ Engine idle/run switch
- ◆ Engine "ON" light
- ◆ Low oil pressure bypass control during starting
- ◆ Contactor close/open switch
- ◆ Contactor "CLOSED" light
- ◆ Gauges include tachometer, oil pressure, fuel level, water temperature, hourmeter, and battery charging ammeter

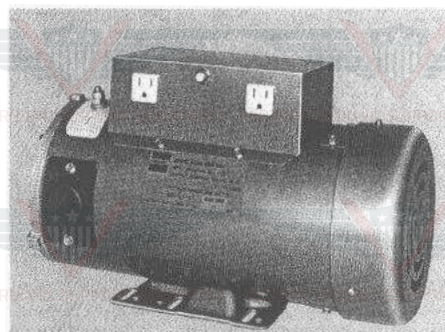
### Finish

All Hobart ground power equipment is painted with DuPont Dulux automotive enamel. Jet-Ex 4D paint options are:

- ◆ Standard — One overall color of your choice
- ◆ Extra charge — Two colors; two colors, with contrasting stripe

### Optional Items

- ◆ 120 VAC 60 Hz 1 phase Generator (DA28L-1600-HBC)
- ◆ 14 volt DC kit
- ◆ Export crating
- ◆ Fork lift pockets
- ◆ Glow plug
- ◆ Cold weather, ether start kit
- ◆ Stationary mounting
- ◆ Trailer with low bar activated brakes (with or without fenders)
- ◆ Fuel/water separator
- ◆ Trailer with hand activated brakes (with or without fenders)
- ◆ Block heater



The Hobart Model DA28L-1600-HBC, 120 VAC, 60 Hz Generator provides instant 120 volt electrical power from a compact DC power converter for a variety of uses, including power tools, lights, and vacuum cleaners. The lightweight, rugged design is engineered for long life, dependable performance, and minimal maintenance.

### Generator Specifications

Model	DA28L-1600-HBC
Output, nominal	120 VAC, 60 Hz, 1600 watts
Input, nominal	28.5 VDC
Input, amps	approx. 75 amps
Height	9" (228.6 mm)
Length	14-5/8" (371.5 mm)
Width	7" (177.8 mm)
Weight	approx. 50 lbs. (22.7 kg)

### Shipping

Model	Length	Width	Height	Ground Clearance	Approx. Weight Without Fuel
Trailer mounted with fenders & cable trays.	78.5" (1994 mm)	58.5" (1486 mm)	59.25" (1505 mm)	8" (203 mm)	2280 lbs. (1034 kg)
Trailer mounted without fenders & cable trays. With cable hangers.	78.5" (1994 mm)	54.5" (1384 mm)	59.25" (1505 mm)	8" (203 mm)	2125 lbs. (964 kg)
Stationary unit with cable hangers & spacers under frame.	67" (1702 mm)	34.25" (870 mm)	53" (1346 mm)	—	1900 lbs. (862 kg)
Footprint without trailer.	65" (1651 mm)	28" (711 mm)	—	—	—

Specifications subject to change without notice.

# HOBART

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