

# 90kVA Ground Power Unit G19

Part No. BGF-01-00-00021-A

## Military Tarmac, 400Hz + 28VDC Ground Power Unit



A Ground Power Unit designed for the modern military and civilian fixed and rotary wing aircraft that requires high quality 90kVA 400Hz or 28V DC power. This model features a fuel endurance of 15 hours at continuous full load and is ideal for servicing a wide variety of small to medium aircraft.

### Features

- ✓ Dual Output
- ✓ Multi-Fuel
- ✓ Quiet
- ✓ Efficient
- ✓ Low IR Signature
- ✓ Reliable

Images and specifications may change without notice. No product endorsement is implied.

# Specifications

<b><u>DIESEL:</u></b>	Deutz 6 cylinder Turbocharged and Intercooled - BF6M1013E	<b>Excitation:</b>	4.0A nominal (90kVA @ 0.8PF), 6A maximum capability
<b>Engine power:</b>	116kW at 1500 rpm continuous, 122kW intermittent at 50°C	<b>Physical Output :</b>	4x70mm <sup>2</sup> complete with standard aircraft plug plus 2x120mm <sup>2</sup> with standard 28V DC plug.
<b>Electrical system:</b>	24V DC nominal	<b>TRU:</b>	800Amps Continuous, 2000Amps Jetstart
<b>Starter:</b>	24V with protection relay	<b>TRAILER:</b>	4 wheel, front wheels steered by drawbar
<b>Alternator:</b>	24V DC, 50A	<b>Canopy:</b>	Aluminium clad, Aluminium door frames and Aluminium doors.
<b>Air cleaner:</b>	Disposable dry type	<b>Suspension:</b>	Leaf springs front and rear
<b>Governor:</b>	Electronic, Direct actuator	<b>Steering:</b>	Ackerman front end, custom steering linkage to drawbar
<b>Fuel tanks:</b>	Two, each 150 litres	<b>Tyres:</b>	7.50 R16 (Land Rover rims)
<b>Consumption:</b>	19 litres per hour (typ.) at rated 90kVA 0.8PF AC	<b>Handbrake:</b>	Operates on rear drums
<b>Noise level:</b>	85dBA @ 1metre (at full load)	<b>Gross weight:</b>	3,190 kg, (2,890 kg dry)
<b>ALTERNATOR:</b>	Aluminium Body, Brushless 32-pole, salient rotor, drip proof, forced cooled	<b>Dimensions:</b>	1800H x 2000W x 3350L
<b>Output Voltage:</b>	200/115V 400Hz 3-phase 4-wire	<b>Ground Clearance:</b>	330mm
<b>Output Current:</b>	260 Amps nominal	<b>Towing:</b>	76 mm lunette eye, 40 km/h maximum
<b>Rating:</b>	90kVA @ 0.8PF AC continuous, 125kVA intermittent at an ambient temperature of 50°C	<b>Air transport:</b>	Tie downs provided on body (x 4), and on axles (x 4)
<b>Transient:</b>	0 to 90kVA-step load capable, well within MIL STD 704E	<b>Road transport:</b>	Tray or semi using tie downs provided on axles (x 4) only
<b>Insulation:</b>	H (125°C allowable rise) with B rise (80°C nominal) at 50°C ambient	<b>Forklift:</b>	Two 238 x 88 mm aperture provisions for 150 mm forks
<b>BEAK Engineering Pty Ltd</b>		<b>Finish:</b>	Powder coated Chassis Two pack canopy in customer specified colour scheme and decals

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