

## PORTABLE GROUND POWER UNIT FOR HELICOPTER

### GB2/3 & GB5/3 Model

Especially designed for Helicopter Turbine Start and for Maintenance Application, the **Guinault Hybrid GB2/3 GPU offers the highest value for money for all Rotating Wings applications.**

GB2/3 & GB5/3 exclusive **GUINAULT double winding Alternator** is capable to supply **simultaneously 2 signals** :

- **AC 115VAC/400Hz** voltage for Electronic preflight checks
- **DC 28VDC** voltage for Helicopter start and maintenance.

Due to the high 28Vdc peak power capacity, **GB2/3 is adapted to the major part of Helicopter Brand and model available on the market**

**Key Words:** 170 kg, portable, Air-transportable, diesel, 400Hz AC and 28Vdc DC power, Helicopter Start & Maintenance

**Purpose:** Military and Civil Helicopter



The GB2/3 can be **split in 2 modules (85 kg each)** , for easy lift and transport in the Helicopter.

The use of **air cooled engine**, compatible with **Diesel or Jet Fuels** make the GB2/3 a unique solution to all helicopter power requirements in extreme operations.

Utilisation of GB2/3 on your helicopter fleet will significantly **reduce the discharge of Nickel-Cadmium Helicopter Batteries and increase their life-time.**



	<b>GB2/3</b>	<b>GB5/3</b>
<b>AC OUTPUT</b>		
<input type="checkbox"/> <b>Rated Power</b>	3kVA (power factor 0,8)	3kVA (power factor 0,8)
<input type="checkbox"/> <b>Voltage</b>	115/200V (3 phases + N)	115/200V (3 phases + N)
<input type="checkbox"/> <b>Frequency</b>	400Hz	400Hz
<b>DC OUTPUT</b>		
<input type="checkbox"/> Rated Power	2kW	5kW
<input type="checkbox"/> Voltage	28,5 VDC	28,5 VDC
<input type="checkbox"/> Permanent current	60A	175A*
<input type="checkbox"/> Peak current	1300A	2000A
<input type="checkbox"/> Overload 25s	120A	350A
<input type="checkbox"/> Battery recharge time after 3 start-ups	10 min	7 min
<b>ENGINE</b>		
<input type="checkbox"/> Brand/Type	Lombardini 15LD315	Lombardini 15LD440
<input type="checkbox"/> Cooling type	Air-cooling	Air-cooling
<input type="checkbox"/> Usable Fuel	Diesel and JET Fuel	Diesel and JET Fuel
<input type="checkbox"/> Power	1 Cylinder, 315cm <sup>3</sup> - 4,9KW	1 Cylinder, 440cm <sup>3</sup> - 8,0KW
<input type="checkbox"/> Speed	3429 rpm	3429 rpm

### Data for both GB2/3 and GB5/3

<b>ALTERNATOR</b>		
<input type="checkbox"/> Model	GUINAULT AB100 brushless	
<input type="checkbox"/> Number of Poles	14 poles	
<input type="checkbox"/> Voltage Regulation	+/- 1,5%	
<input type="checkbox"/> Voltage Regulator	RS525 Guinault PCB – tropicalized	
<input type="checkbox"/> Voltage transient	±3V <200ms, under load impact 0-80% or 80%-0	
<input type="checkbox"/> Frequency regulation	+/- 3%	
<input type="checkbox"/> Frequency transient	±30Hz < 2s, under load impact 0-80% or 80%-0-	
<b>ELECTRICAL OUTPUTS</b>		
<input type="checkbox"/> 1 AC output 115V-400Hz, length 8 m. + socket Stanag 3303 <input type="checkbox"/> 1 DC output 28V <sub>DC</sub> , length 8 m. + socket ISO461 / Stanag 3302		
<b>SAFETIES</b>		
	<b>Electrical</b> <input type="checkbox"/> Over/Under Voltage <input type="checkbox"/> Over/Under Frequency <input type="checkbox"/> Over Load	<b>Engine</b> <input type="checkbox"/> High Temperature <input type="checkbox"/> Low Oil Pressure <input type="checkbox"/> Battery charging default
<b>MAIN ASSEMBLY</b>		
	<input type="checkbox"/> Automatic braking when tow-bar is raised or lowered <input type="checkbox"/> Welded tubular frame, anti-corrosion coating <input type="checkbox"/> Cables compartments on the top of the unit <input type="checkbox"/> Batteries: 2 x 12V-50Ah (24VDC System) <input type="checkbox"/> Inflate tyres <input type="checkbox"/> Fuel tank 4,3 litres (8hours autonomous)	
<input type="checkbox"/> Dimensions	L: 1,26 m x W: 0,60m x H:0,82m	L: 1,72 m x W: 0,75m x H:0,86m
<input type="checkbox"/> Weight	170kg (= 87kg + 83kg)	245kg (= 135kg + 110kg)

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