

## MG-Set 315

### Latest Generation of Rotary GPU\*

- **High Overload Capability**
- **Best Reliability**
- **No Mains Disturbance**

The APOJET R rotary frequency converter is designed to generate 400Hz power mainly used for centralized ground power systems. Using the latest state-of-the-art technology for the system control and several decades of experience in manufacturing of rotary converters, the APOJET R offers the best reliability for aircraft ground power supply systems with high overload capability and with no mains disturbance. Up to 8 converters can work in load dependent parallel mode



#### Rating 315KVA

- monobloc converter (two bearings only)
- high overload capability
- load dependent parallel operation
- special earth leakage protection
- stable operating performance due to microprocessor control
- low output distortion factor
- no mains disturbance
- interface for remote control and centralized control / indication, PC or modem connection

\* Ground Power Unit



**Nothing protects quite like Piller**

# TECHNICAL DATA SHEET

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Converter Type	MG-Set 315	
	With top mounted switchgear	With free standing switchgear
Dimensions (wxdxh) mm / IN		
- converter	2707 x 1304 x 2062/107 x 51 x 81	2707 x 1304 x 1225/107 x 51 x 48
- switchgear	-	1600 x 500 x 2000/63 x 20 x 79
Weight approx. kg / lbs		
- converter	5550 / 12236	4650 / 10251
- switchgear	-	475 / 1047
Ingress protection	Converter: IP 20 / NEMA 1 (indoor) / cabinet: IP 54 / NEMA 3R	
Ambient temperature °C / °F	0 to + 40 / 32 to +104	
Humidity	max. 95% without condensation	
Cable entry	From top right hand side	input / output at bottom
Paint finish	RAL 7032 (other colors on request)	
Paint treatment	phosphatized, primed and powder sprayed	

### Input Data

Starting current	≤ I nom
Nominal input current A	
@ 480V 60Hz / @ 400V 50Hz	341/443
Nominal voltage V, 3 phase	480 or 400 ±10%
Nominal frequency	60 or 50Hz ± 5%
Harmonic content at mains current	< 1%

### Output Data

Output power at p.f. 0.8	315KVA
Nominal output current A	
@ 200V / @ 575V / @ 960V	909 / 316 / 190
Nominal frequency	400Hz at 60Hz input / 400/396Hz at 50Hz input
Nominal voltage V 3ph	200/115 or 575 or 960
Voltage adjustment range	± 5%
Automatic line drop compensation	12% with activated remote voltage sensing or I-boost® (max 600V @ 575V version or max 1000V @ 960V version)
Voltage characteristics	- steady state ± 1% - dynamic ≤ ± 15% acc. to MIL-Std. 704 F, fig 3
Harmonic content L-L	≤ 3% at linear, balanced load, p.f. 0.8
Recovery time	≤ 200ms
Wave form	sinusoidal
Phase angle	120° ± 1.5°
Total efficiency*	> 87%

\* nominal output power at p.f. 0.8

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