

# APOJET R 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 for big widebody aircrafts as well as military aircrafts. It is used as a decentralized ground power system mounted on the apron. 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. The systems includes a distribution panel with 4 90KVA outputs.



### Rating 315KVA

- monobloc converter (two bearings only)
- high overload capability
- noise reducing compact design (one cabinet containing converter and switchgear)
- special earth leakage protection
- stable operating performance due to microprocessor control
- low output distortion factor
- no mains disturbance
- distribution panel with 4 90KVA outputs built in
- interface for remote control and centralized control / indication, PC or modem connection



\* Ground Power Unit



**Nothing protects quite like Piller**

# TECHNICAL DATA SHEET

## APOJET R 315 Latest Generation of Rotary GPU



Converter Type	AJR 315 Compact	AJR 315 AWACS	AJR 315 Container
Dimensions (w x d x h) mm / IN	3346 x 2020 x 1700/ 131.7 x 79.5 x 70	4700 x 2610 x 2610/ 185 x 102.8 x 102.8	6060 x 2500 x 2590/ 238.6 x 98.4 x 102
Weight approx. kg / lbs	6300 / 13889	8900 / 19600	11850 / 26125
Ingress protection	IP 54 / NEMA 3R (outdoor)		
Ambient temperature °C / °F	-20 to + 40 / 0 to +104		
Humidity	max. 95% without condensation		
Cable entry	Mains input at bottom , outlets left (right) side		
Paint finish	RAL 6003 (other colors on request)		
Paint treatment	phosphatized, primed and powder sprayed		

### Input Data

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

### Output Data

Output power at p.f. 0.8	315KVA
Nominal output current	909A
Nominal frequency	400Hz at 60Hz input / 400/396Hz at 50Hz input
Nominal voltage 3ph	200/115V
Voltage adjustment range	± 5%
Automatic line drop compensation	12% with activated remote voltage sensing or I-boost®
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	≤ 200 ms
Wave form	sinusoidal
Phase angle	120° ± 1.5°
Total efficiency*	> 87%

\* nominal output power at p.f. 1



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