

TECHNICAL DATA SHEET

APOJET R 20 - 150 (50 / 400Hz)

Latest Generation of Rotary GPU*

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

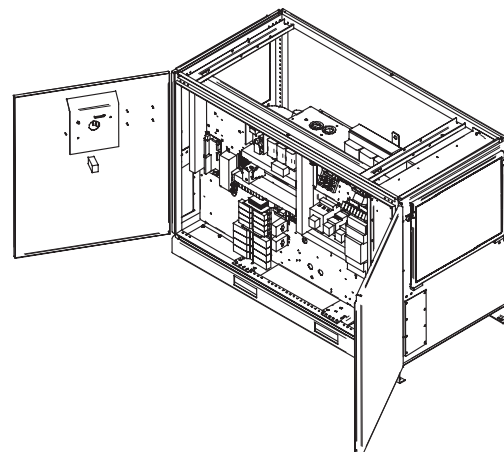
The APOJET R rotary frequency converter is designed to generate 400 Hz power for aircraft as a decentralized ground power system mounted on the apron or near by the rotunda. Using the latest state-of-the-art technology for the system control and several decades of experience in manufacturing of rotary converters, the APOJET R offers the best reliability for aircraft ground power supply systems with high overload capability and with absolutely no mains disturbance.



Rating 20 to 150KVA

- 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
- high degree of user-friendliness due to intelligible control panel
- interface for remote control and centralized control / indication, PC or modem connection

* Ground Power Unit



**Nothing protects
quite like Piller**

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Converter Type	AJR 20	AJR 40	AJR 60	AJR 90	AJR 120	AJR 150
Total efficiency*	~ 85%	~ 85%	~ 85%	~ 85%	~ 88%	~ 88%
Weight approx. kg / lbs	540/1191	780 /1720	810/1786	1210/2668	1230/2712	1230/2712
Dimensions (w x d x h)						
- indoor mm/IN		1610 x 810 x 1110 / 63.4 x 31.9 x 43.7				
- outdoor mm/IN		1800 x 900 x 1165 / 70.9 x 35.4 x 45.9				
Ingress protection		IP 43 / NEMA 1 (indoor) or IP 54 / NEMA 3R (outdoor)				
Ambient temperature °C / °F		with internal heater: -20 to + 40 / 0 to +104 without internal heater: 0 to +40 / +32 to +104				
Humidity		max. 95% without condensation				
Cable entry		bottom or left side entry				
Paint finish		RAL 7032 (other colors on request)				
Paint treatment		phosphatized, primed and powder sprayed				

Input Data

Starting current	90A	150A	≤ I nom	≤ I nom	≤ I nom	≤ I nom
Nominal input current	29A	58A	87A	130A	173A	217A
Nominal voltage, 3 phase	400V ±10%					
Nominal frequency	50Hz ± 5%					
Harmonic content at mains current	< 1%					

Output Data

Nominal output current	58A	115A	173A	260A	346A	433A
Output power at p.f. 0.8	20KVA	40KVA	60KVA	90KVA	120KVA	150KVA
Nominal frequency	400/396Hz (no load/full load)					
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	≤ 200ms					
Wave form	sinusoidal					
Phase angle	120° ± 1.5°					

* nominal output power at p.f. 1



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