

SECURE POWER SUPPLY SYSTEM FOR WINDSHIELD DE-ICING

Temperature control of the windshields' heating coating in the aircraft (de-icing and anti-fogging)

- From the 28 VDC power source and the data transmitted by the pilot and the onboard computer, the system controls the temperature of the 2 windshields and of 2 side windows of the aircraft.
- The system was designed to provide high security level as regards de-icing. It interacts with the central computer to deliver the information required for diagnosis and troubleshooting.
- Design based on reduction of weight, volumes and operating costs.



Characteristics		INPUT
Nominal voltage	:	28 Vdc
Converter operation mode	:	$18V \leq U_e \leq 32 V$

Characteristics		OUTPUT
Installed power	:	7 500 W
Nominal voltage	:	200 VAC

Characteristics		LOAD
Type	:	Resistive heating film

Characteristics		MISCELLANEOUS
Cooling mode	:	Forced convection
Operating interface	:	With cockpit and central computer

Characteristics		ENVIRONMENT
Operating temperature	:	-40 °C to +70 °C
Location	:	Pressurized area
EMI	:	} DO 160 D
Lightning	:	
Shocks	:	
Vibrations	:	



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Electronics for Harsh Environments