PAC8000

Product Data Sheet

8913-PS-AC

Dual-output AC/DC power supply

AC INPUT VOLTAGE	AC INPUT FREQUENCY	DC INPUT VOLTAGE	OUTPUT 1 VOLTAGE
85-264 V AC	**47-65 Hz**	**90-264 V DC**	**24.7 V DC +/-10%**

8913-PS-AC is a dual-output power supply for the PAC8000/MTL8000 equipment family. It accepts a wide AC input range and supplies separate nominal 24 V and 12 V outputs for the documented carrier and field-power arrangement.

01 TECHNICAL DATA

AC input voltage	85-264 V AC
AC input frequency	47-65 Hz
DC input voltage	90-264 V DC
Output 1 voltage	24.7 V DC +/-10%
Output 1 current	5 A nominal; temperature derating applies
Output 2 voltage	11.95 V DC +/-5%
Output 2 current	5 A
Conversion efficiency	Up to 87%
Input-output isolation	2800 V DC
Hold-up time	15 ms typical at full load

MTL 8913-PS-AC Power Supply Datasheet, July 2005; electrical ratings, derating and terminal allocation.

02 ADDITIONAL PRODUCT DATA

Operating temperature	-40 to +70 deg C; case 80 deg C maximum
Storage temperature	-40 to +100 deg C
Redundant-output coupling	Internal load-sharing diode on 12 V output
Power-fail threshold	10.30-11.33 V on output 2
Power-fail indication	Open collector: low impedance healthy, high impedance failed

03 PRODUCT FUNCTION

Output 1 is specified at 24.7 V DC +/-10% with a nominal 5 A rating subject to temperature derating; output 2 is 11.95 V DC +/-5% at 5 A. The 12 V path incorporates a load-sharing diode for redundant operation. An LED and an open-collector power-fail output indicate supply condition.

04 SYSTEM COMPATIBILITY

Treat the 24.7 V and 11.95 V outputs as distinct circuits. The internal load-sharing diode applies to the 12 V output; it does not establish unrestricted paralleling of both outputs. Apply the 24 V output derating curve at the actual ambient and mounting condition.

05 REFERENCE

MTL 8913-PS-AC Power Supply Datasheet, July 2005; electrical ratings, derating and terminal allocation.

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