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Product Data Sheet

1.5 WATT UNREGULATED DC/DC CONVERTER

PWR1726A/PWR1726A1



FEATURES

- 8000V ISOLATION TEST VOLTAGE
- NO EXTERNAL PARTS REQUIRED
- SYNCHRONIZABLE
- REMOTE ON/OFF
- LOW-BARRIER CAPACITANCE

APPLICATIONS

- BIOMEDICAL DATA ACQUISITION
- INDUSTRIAL PROCESS EQUIPMENT
- DATA ACQUISITION
- TEST EQUIPMENT
- PORTABLE EQUIPMENT

DESCRIPTION

The PWR1726A/PWR1726A1 is a single-channel, dualoutput DC/DC/ converter designed for those applications where high-isolation voltage and low-barrier capacitance are critical for system reliability and integrity.

Calculated mean-time-to-failure (MTTF) is in excess of 100 years at an ambient temperature of $+25^{\circ}$ C and at rated output power. The performance of the PWR1726A/PWR1726A1 is not derated over its entire specified temperature range of -25° C to $+85^{\circ}$ C.

Synchronization of the PWR1726A/PWR1726A1 may be

accomplished simply by connecting the sync pin of one unit to the sync pin of another unit. In this manner, up to eight converters may be ganged together.

The PWR1726A/PWR1726A1 provides a plus and minus output voltage that is approximately equal to the magnitude of the input voltage. The unit operates over an input voltage range of 7VDC to 16VDC.

Each PWR1726A/PWR1726A1 isolation barrier is tested per the method set forth by UL544, VDE750, and CSA C22.2.

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COMMON SPECIFICATIONS

Specifications typical at $T_A = +25^{\circ}C$, $V_{IN} = 15VDC$, $I_{LOAD} = \pm 50mA$ and in free-running mode unless otherwise noted.

PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNITS
INPUT					
Rated Voltage			12		VDC
Voltage Range		7		16	VDC
Input Current	$I_{I,OAD} = 0$		30		mA
	I Rated Load		145	165	mA
	Short Circuit		115		mA
Ripple Current	I _{LOAD} = Rated Load		15		mAp-p
ISOLATION					
Voltage Rated Continuous					
AC, 60Hz		3500			Vrms
DC		5000			VDC
Test Voltage	60sec, 60Hz	8000			Vpk
Resistance			10		GΩ
Capacitance			10		pF
Leakage Current	V _{ISO} = 240VAC, 60Hz		1	2	μΑ
OUTPUT					
Rated Voltage	I _{LOAD} = Rated Load		±15		VDC
Voltage Range	I _{LOAD} Rated Load	±14.25		±15.75	VDC
	I _{LOAD} = OmA	±16.0	±16.5	±18.0	VDC
Rated Current	Balanced Loads		±50		mA
Current Range	Balanced Loads	0		±90	mA
	SingleEnded	0		180	mA
Line Regulation	7VDC <v<sub>IN<18VDC</v<sub>		1.16		mV/mV
Load Regulation	No Load < I _{out} < ±50mA			0.3	%/mA
Ripple Voltage	BW = DC to 10MHz				
	$I_{LOAD} = 0$		15		mVp-p
	I _{LOAD} = Rated Load		50		mVp-p
Sync Out (PWR1726-A1 only)	Vin = 12VDC, Vout = Rated, Balanced		30		Vp-p
CENEDAL					(referenced to common)
	Calculated par				
MITE					
	MIL - HDBK - 217 Rev. E		10		NAL IN
Switching Frequency	Ground, Benign 25° C		1.2		
			120		KTIZ
TEMPERATURE					
Specification		-25	+25	+85	D, C
Operation		-40		+100	D, C
Storage		-55		+110	Ű

NOTE: Other input and output voltages may be available upon request. Please consult the factory.

MECHANICAL



ABSOLUTE MAXIMUM RATINGS

ORDERING INFORMATION



TYPICAL PERFORMANCE CURVES

TA=+25°C, Rated Input Voltage, Rated Output Current unless otherwise noted

OUTPUT VOLTAGE VS. OUTPUT CURRENT



OUTPUT VOLTAGE VS. INPUT VOLTAGE



REMOTE ON/OFF CONTROL



If no connection is made to "Remote ON/OFF" pin, the converter will operate normally.

SYNCHRONIZATION INFORMATION

The unit may be synchronized to an external clock. Recommended frequency is a minimum of 110KHz and a maximum of 250KHz. The sync signal must be a square wave pulse with a peak of 7.5V min to 12.0V max, the amplitude being referenced to -Vin.