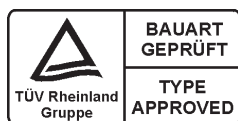


10 Watt

AC/DC-Converter Package AB



- o Universal Input
- o Single & Dual Output
- o Isolation Voltage 3.000 VAC
- o Short Circuit Protection
- o Compact Size



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	MIN. LOAD	%EFF
ACS10AB-3.3*	90-260 VAC	3.3 VDC	3.000 mA	4%	68
ACS10AB-5		5 VDC	2.000 mA	5%	71
ACS10AB-12		12 VDC	833 mA	5%	76
ACS10AB-15		15 VDC	666 mA	3%	76
ACS10AB-24		24 VDC	416 mA	5%	80
ACD10AB-5		±5 VDC	±800 mA	1%	72
ACD10AB-12		±12 VDC	±380 mA	3%	77
ACD10AB-15		±15 VDC	±300 mA	1%	77

*) No TÜV-approval

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS

Input Voltage Range	47-440 Hz, 90-260 VAC or 120-370 VDC
Current (Full Load)	200 mA max. (115 VAC) 130 mA max. (230 VAC)
Inrush Current (<2ms)	10 A max. (115 VAC) 20 A max. (230 VAC)
Leakage Current	0.75 mA max.
External Fuse (recommended)	1.5 A slow blow type

OUTPUT SPECIFICATIONS

Voltage Accuracy	±2%
Maximum Capacitive Load	470-23000 µF depending on model
Ripple & Noise at 20 MHz BW	<0.5% Vout +50 mV p-p max.
Over Current Protection	Hiccup technique, auto recovery
Over Voltage Protection	Zener diode clamp
Short Circuit Protection	Hiccup mode, indefinite (automatic recovery)
Hold-Up Time	15 ms min.
Line Regulation ¹⁾	±0.3%
Load Regulation ²⁾	±0.5%

¹⁾Measured from Low Line to Half Line²⁾Measured from 5% Load to Full Load

SPECIFICATIONS

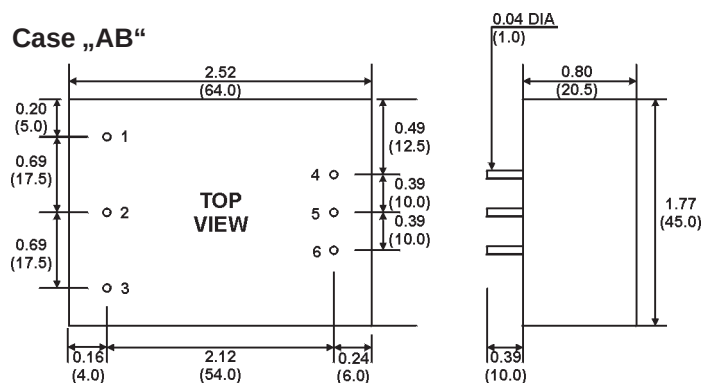
All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

GENERAL SPECIFICATION

Efficiency	see table	
Isolation Voltage	Input-Output Input-FG Output-FG	3.000VAC 1.500VAC 500VAC
Isolation Resistance	100 Mohms min. at 1KVDC	
Switching Frequency	100 kHz	
Operating Temperature Range	-25°C to +71°C	
Derating	>50°C (see diagram page 4)	
Storage Temperature Range	-40°C to +85°C	
Temperature Coefficient	0.02%/°C	
Humidity	95% RH	
Cooling	Free-Air Convection	
Weight	100 g	
Case Material	Plastic Resin+ Fiberglass (flammability to UL 94V-0) case Inside Epoxy Resin	
MTBF (MIL-HDBK-217F)	>250.000 hrs	
Safety Standards	UL1950, EN60950:1992+A1+A2+A3+A4+A11	
EMC Standards	EN50081-1, EN50082-1, EN61000-3-2, EN61000-3-3, EN55022 Class B, EN55024 IEC801-2+3+4	
Dimensions	2.52 x 1.77 x 0.80 Inches (64.0 x 45.0 x 20.5 mm)	

MECHANICAL SPECIFICATIONS

Case „AB“



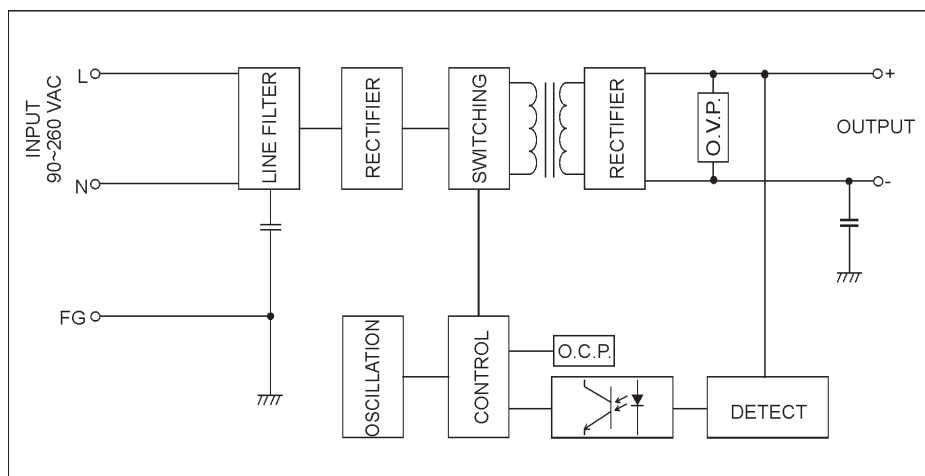
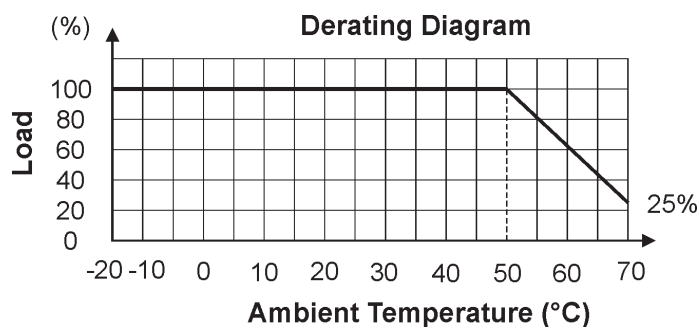
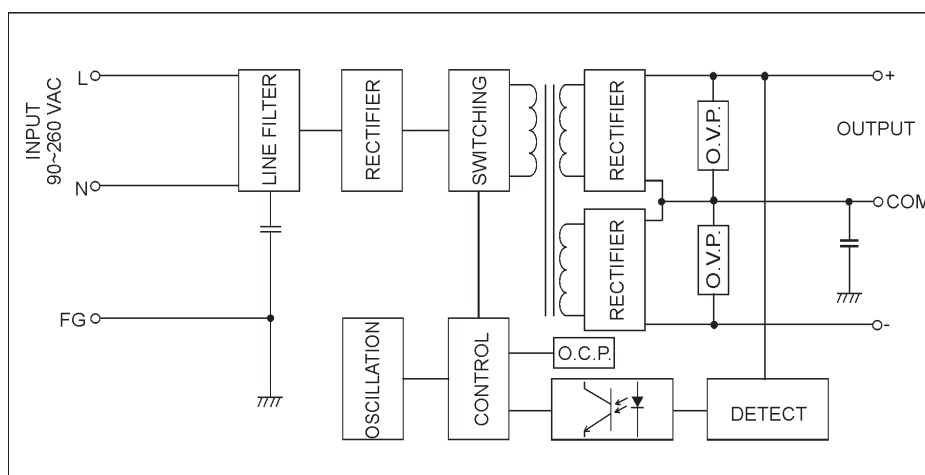
All Dimensions in Inches (mm)

PIN CONNECTIONS

Pin	Single	Dual
1	FG	FG
2	VAC IN	VAC IN
3	VAC IN	VAC IN
4	-VDC OUT	-VDC OUT
5	NC	COMMON
6	+VDC OUT	+VDC OUT

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

Application Notes**BLOCK DIAGRAM - Single Output****BLOCK DIAGRAM - Dual Output****NOTICE:**

The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies! Specifications can be changed without notice. The latest and most complete information can be found on our website.