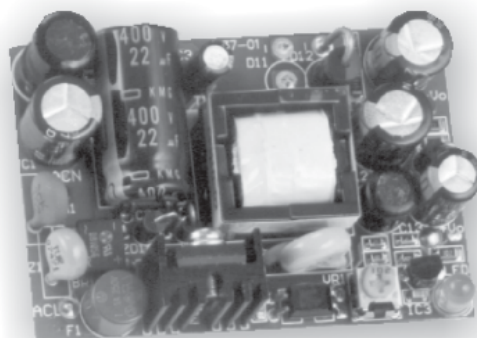


20 Watt

AC/DC - Module Open Frame



- o Universal Input 85-264 VAC
- o PCB Mountable
- o Efficiency to 82%
- o Industry-Standard Pin Out
- o Meets UL, CSA, TÜV, CE



MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT		RIPPLE & NOISE	% EFF
		MIN.	MAX		
ACS20-3.3*	3.3 VDC	0 A	4400 mA	50 mV	70
ACS20-5*	5 VDC		4400 mA	1%	73
ACS20-9*	9 VDC		2450 mA		77
ACS20-12*	12 VDC		1800 mA		80
ACS20-15*	15 VDC		1400 mA		80
ACS20-24*	24 VDC		920 mA		82

*add Suffix "P" for Connectors with PCB mountable Type

NOTE:

1. Add a 0.1 μ F ceramic Capacitor and a 10 μ F E.L.Capacitor to output for Ripple & Noise measuring @ 20 MHz BW.

SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range	85-264 VAC or 125-370 VDC	
Inrush Current	20 A/115 VAC 40 A/230 VAC	
Input Frequency	47-63 Hz	
Current Consumption at No Load	@ 115 Vac @ 230 Vac	20 mA 20 mA

OUTPUT SPECIFICATIONS

Initial Accuracy	±1.0% max.	
Temperature Coefficient	±0.05% /°C	
Ripple and Noise, 20 MHz BW	see table	
Short Circuit Protection	Hiccup mode and auto recovery	
Holdup Time ¹⁾	16 mS typ.	
Over Voltage Protection	Yes, TVS >1.2-1.4 x Vout	
Over Load Protection	No - Please refer to Short Circuit Protection ⁴⁾	
Line Regulation ²⁾	±0.5% max.	
Load Regulation ³⁾	±1.0% max.	

NOTE:

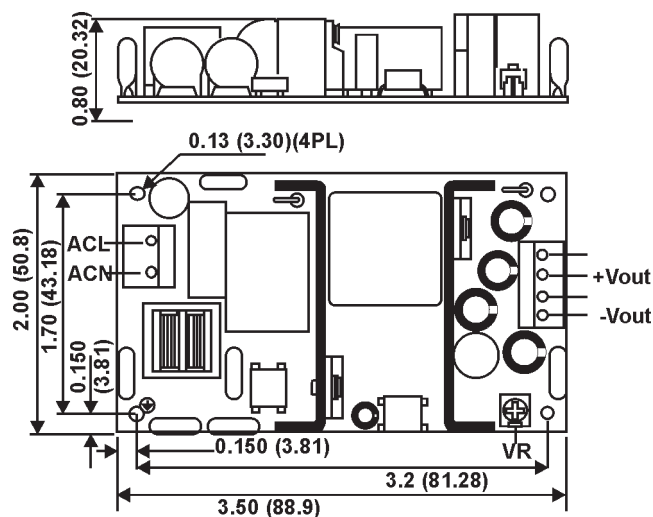
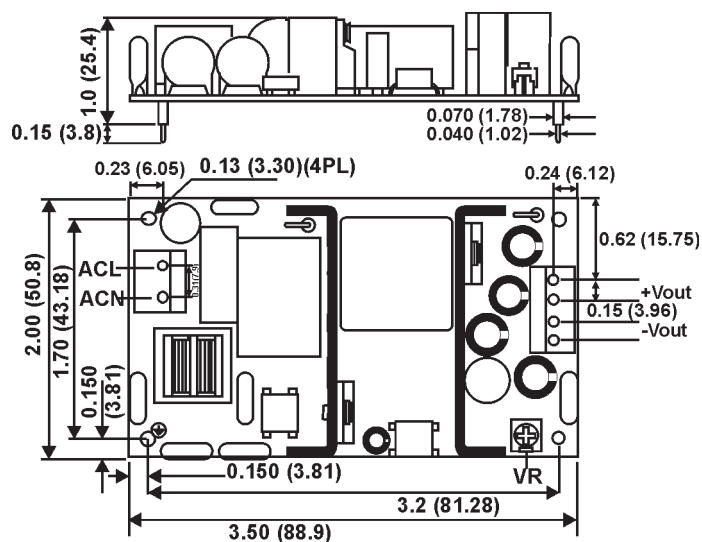
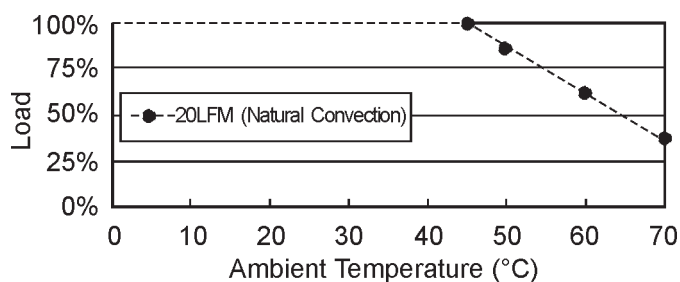
1. Measured at Vin = 115 VAC, Full Load
2. Line Regulation is measured from High Line to Low Line with Full Load.
3. Load Regulation is measured from Full Load to 10% Load.
4. Continuous use in Over Load condition is not recommended as it may cause damage of power supply.

GENERAL SPECIFICATION

Efficiency	see table	
Isolation Voltage (I/O)	3000 VAC	
Operating Temperature Range	0°C to +45°C	
Storage Temperature Range	-40°C to +100°C	
Cooling	Free Air Convection	
Derating >45°C	see Diagram	
Molex Connectors	Input Output	Housing 09-50-3031, Crimp Terminal 2878 Housing 09-50-3041, Crimp Terminal 2878
Safety Standards	UL60950-1, EN60950-1	
EMC Standards	EN55022, EN61000-3-2, EN61000-3-3, EN50081-1 EN50082-1, EN50081-2, EN55024	
Dimensions	Molex-Connector Type PCB-Pin Type "P"	88.9 x 50.8 x 20.32 mm (3.5 x 2.0 x 0.8 Inches) 88.9 x 50.8 x 25.4 mm (3.5 x 2.0 x 1.0 Inches)
Weight	100 g	

SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS**ACS20-xx****ACS20-xx-P****DIAGRAMS****Derating Curve****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.