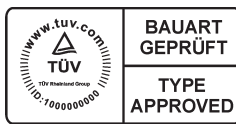


60 Watt

AC/DC - Converter
Medical Open Frame 2 x 4 Inch



- o Universal Input 90-264 VAC
- o Medical and ITE Approved
- o Efficiency up to 90%
- o Continuous Short Circuit Protection
- o Meets EN55011 and EN55022 Class B
- o Meets 2MOPP
- o No Load Power Consumption <0.5 W



MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE ²⁾ (p-p)	VOLTAGE ACCURACY ¹⁾	VOLTAGE ADJ. RANGE	% EFF ³⁾
ACS60M-5	5 VDC	8 A	1 %	±1%	4.75-5.25 VDC	82
ACS60M-12	12 VDC	5 A			11.4-12.6 VDC	87
ACS60M-15	15 VDC	4 A			14.25-15.75 VDC	88
ACS60M-24	24 VDC	2.5 A			22.8-25.2 VDC	89
ACS60M-48	48 VDC	1.25 A			45.6-50.4 VDC	90

NOTE

1. Voltage Accuracy is set at full load and 25°C Ta.

2. Add a 0.1 µF ceramic capacitor and a 10 µF E.L. capacitor to output for Ripple & Noise measuring @ 20 MHz BW.

3. Typical Efficiency at 230 VAC and Full Load at 25°C.

SPECIFICATIONS

All Specifications Typical At Nominal Line, 75% Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Input Frequency	47 to 63 Hz
Inrush Current at 240 VAC	Cold Start @ 25°C 75 A max.
Input Current	@ 100 VAC 1.6 A max. @ 240 VAC 0.8 A max.
Leakage Current	100 µA max.

OUTPUT SPECIFICATIONS

Voltage Accuracy	see table
Ripple and Noise	see table
Short Circuit Protection	Hiccup Mode (Auto Recover)
Over Voltage Protection	TVS Component to Clamp
Hold-up Time	@ 115 VAC 16 ms @ 230 VAC 5 VDC 160 ms 12, 24 VDC 110 ms 15 VDC 105 ms 48 VDC 120 ms
Temperature Coefficient	±0.05%/°C
Line Regulation ¹⁾	±0.5%
Load Regulation ²⁾	±1.0%

1. Line Regulation is measured from 100 VAC to 240 VAC with full load.

2. Load Regulation is measured from 10% to 100% full load.

SPECIFICATIONS

All Specifications Typical At Nominal Line, 75% Load, and 25°C Unless Otherwise Noted

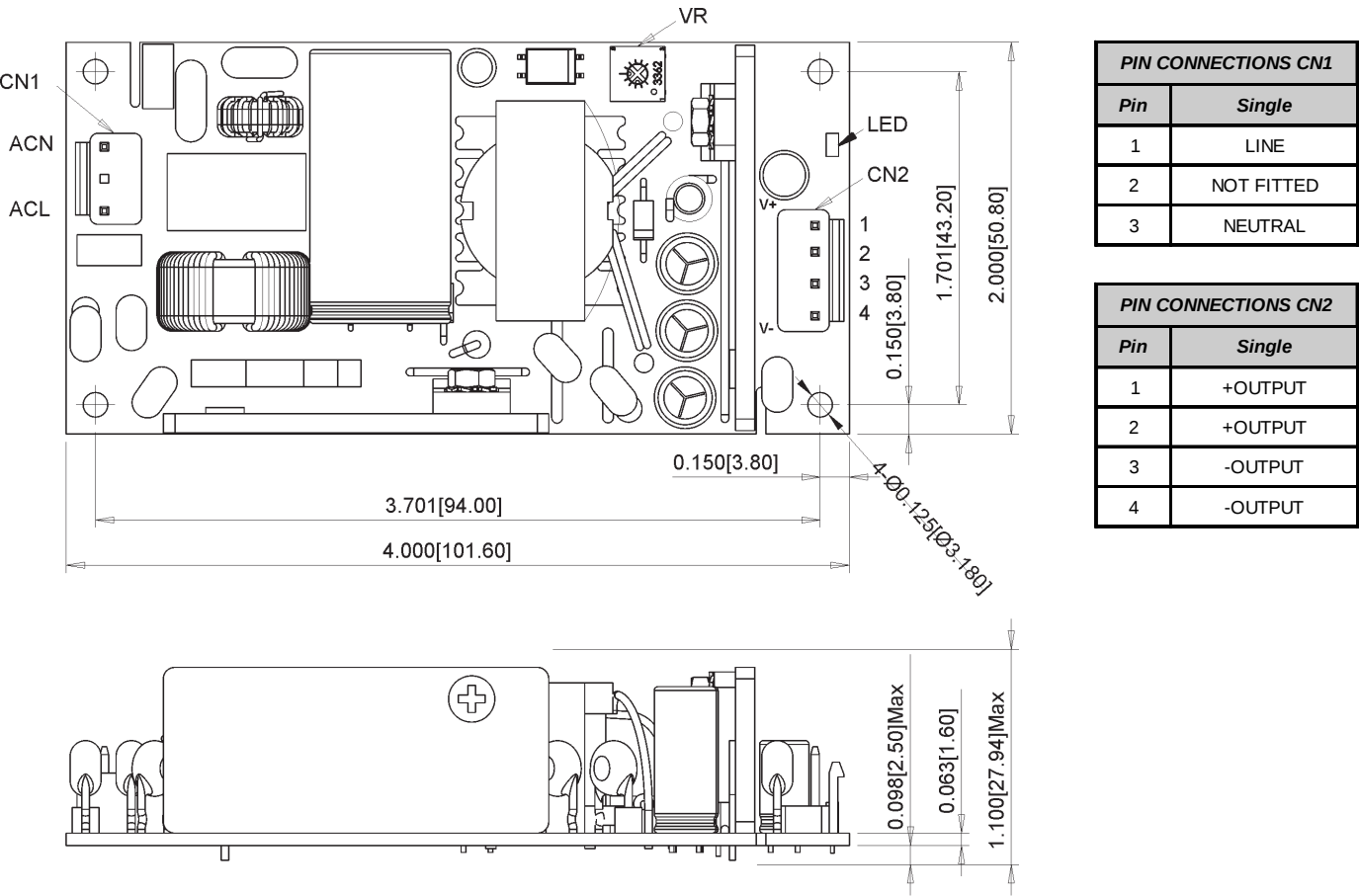
GENERAL SPECIFICATION

Power Consumption @ No Load	<0.5 W
Efficiency	see table
Isolation Voltage	Input to Output 5656 VDC
Operating Temperature Range	-20°C to +70°C (see Derating Diagram)
Derating	see Diagram
Storage Temperature Range	-20°C to +85°C
Cooling	Natural Convection
Humidity	93% RH max. Non-Condensing
Switching Frequency	65 kHz
Emission and Immunity	EN55011, EN55022 Class B, EN55024 FCC CFR 47 Part 15, 18 EN61204-3, EN61000-6-1, EN61000-6-3 EN60601-1-2, EN61000-3-2, EN61000-3-3
Safety	EN60601-1-2:2007, EN 60601-1:2006+A11:2011+A12:2014 UL ANSI/AAMI ES60601-1:2005, IEC60950-1 EN60950-1, UL60950-1
Altitude	3000 m
MTBF (MIL-HDBK-217F) GB, 25°C/115 VAC	200 khrs min.
Dimensions	4.00 x 2.00 x 1.10 Inches (101.6 x 50.8 x 27.94 mm)
Weight	125 g
Input/Output Connector	Standard input and output connectors (CN1 and CN2) wafer with TAWAN KING PIN TERMINAL PVHI series and mate with JST housing VHR series and JST SVH-21/41T-P1.1 series crimp terminal or equivalent. Optional connectors (CN1 and CN2) wafer with LONG CHU P3060 series and mate with MOLEX housing 5195 series and MOLEX 5194 series crimp terminal or equivalent.

SPECIFICATIONS

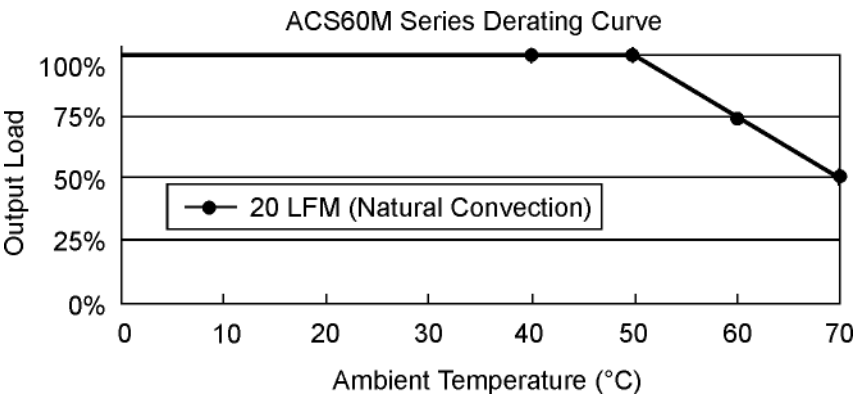
All Specifications typical at 75% Load, and 25°C Unless Otherwise Noted

MECHANICAL SPECIFICATIONS



All Dimensions in Inches[mm]
Tolerance: Inches:x.xxx±0.02
Millimeters:x.xx±0.5

DERATING DIAGRAM



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.