

UNIVERSAL INPUT AC-DC MEDICAL APPLICATION OPEN FRAME SINGLE OUTPUT 43 WATTS INTERNAL SWITCHING POWER SUPPLIES HMI43 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
COMPACT 4"x2"x1" PCB FORMAT
MEET UNIVERSAL SAFETY STANDARDS
EMI MEET EN55011 & FCC CLASS B
CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Range typ. 90-264Vac. Rating 100 to 240Vac.
Input Connector: V-M connector.
Input Frequency: 47-63Hz.
Inrush Current: <=12A rms cold start @230Vac.
Input Current: Typ. 0.7A@115Vac, 0.35A @230Vac.
Dielectric Withstand: Meet IEC60601.
EMI: Meet EN55011 & FCC Class B.
Hold-up Time: Typ. 20mS @115Vac, 100mS @ 230Vac.
Earth Leakage: Less than 0.1mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: V-M connector.
Output Wattage: Typ. 42 watts.
Line Regulation: Typ. 0.2%.
Load Regulation: Main VO1 typ. +/-2-3%.
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in at main output VO1(Latch)..
Adjustability: Not available.
Overload Protection (OLP): Fully protected against outputs overload and short circuit. Typ. OLP set at 105-120% of rating output power. Consult the factory for OLP setting

GENERAL SPECIFICATION

Efficiency: Typ. 85-90%(Various with output voltage).
Switching Frequency: 85 KHz.
Circuit Topology: Fixed frequency flyback circuit.
Transient Response: Output voltage returns in less than 0.5mS following a 50% load change.
Safety Standard: Medical standards IEC60601/UL2601 Class I.
Power Density: 5.5Watts / Cubic Inch.
Operating Temperature: 0 to +50 °C under forced air flow for full load. Derate by 1.3W/ °C from 40°C to 50 °C.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: Typ. 0.04%/°C.
Cooling: At least 5 cfm(100LFM) direct forward air flow is required to achieve full rating power.
Construction: 4"x2"x1" PCB format.



In application

OUTPUT VOLTAGE / CURRENT RATINGS CHART

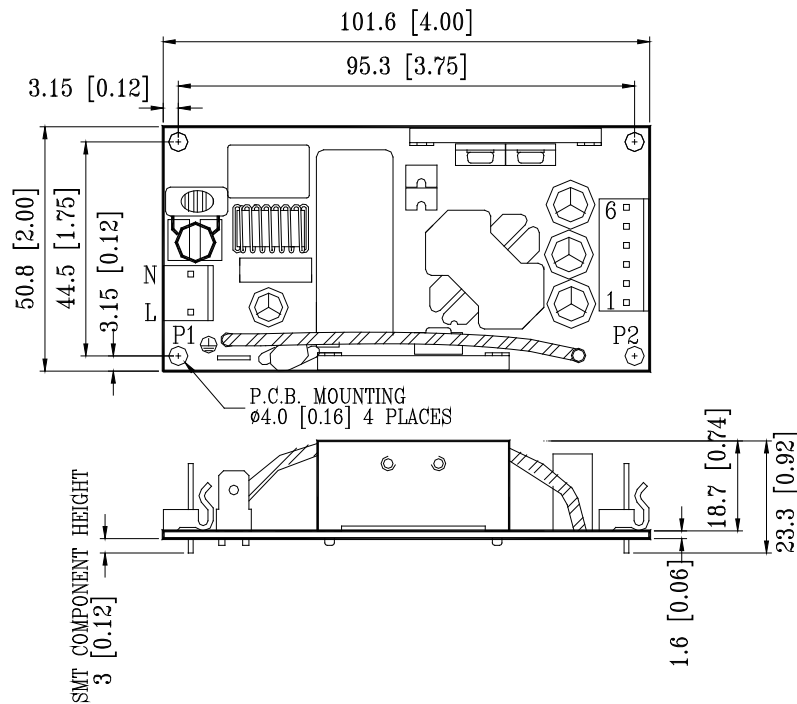
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SINGLE OUTPUT

MODEL NO.	MAIN VO1 ★	
	Typ.	Volt.
HMI43-S120350	3.50A	12.0V
HMI43-S150270	2.70A	15.0V
HMI43-S240170	1.70A	24.0V
HMI43-S480085	0.85A	48.0V

Symbol: "★" OVP built-in.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 145g (5.12 Oz.)


INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE OUTPUT	
	AC-L	AC-N	AC-G	VO1	DC COM
CNTR/PIN#	P1-3	P1-1	G	P2-1,2	P2-3,4

Mating connector: P1,2 Molex # 5195 or 5239 series.