

04/25/2003

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.

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.





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

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

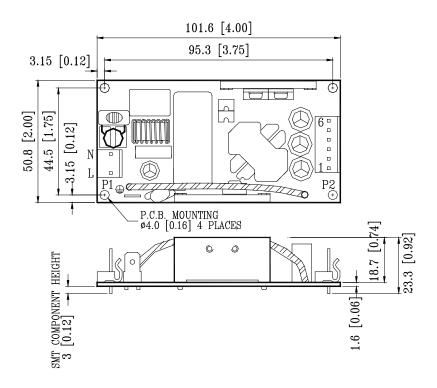
SINGLE OUTPUT

MODEL NO.	MAIN VO1 ★		
	Тур.	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

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

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