## **H**itron

### 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 MEDICAL STANDARD EN 60601-1/ UL 2601-1
- EMI MEET EN 55011 & 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 IEC 60601-1. 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 Current: See Ratings Chart.
Output Connector: V-M connector.
Output Wattage: Typ. 42 watts.
Line Regulation: Typ. 0.2%.
Load Regulation: Typ. ±2-3%.
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in at main output (Latch).
Adjustability: Factory set.
Overload Protection (OLP): Fully protected against outputs overload and short circuit. Typ. OLP set at 105-120% of rating output power.

### **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: Meet Medical standards UL 2601-1/ EN 60601-1 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.

Consult the factory for OLP setting.

Note: Due to requests in market and advances in technology, specifications subject to change without notification.



# CE

For the details of safety approval, please consult the factory.

### **OUTPUT VOLTAGE/CURRENT RATINGS CHART**

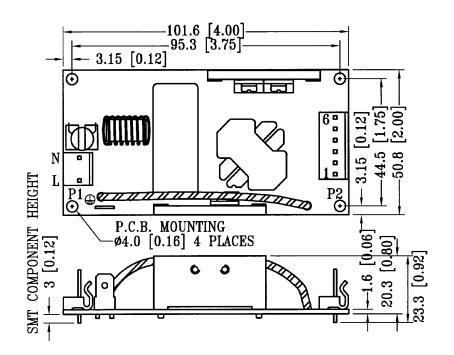
### SINGLE OUTPUT

MODEL NO.	MAIN OUTPUT		
	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-L	P1-N	G	P2-1,2	P2-3,4

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