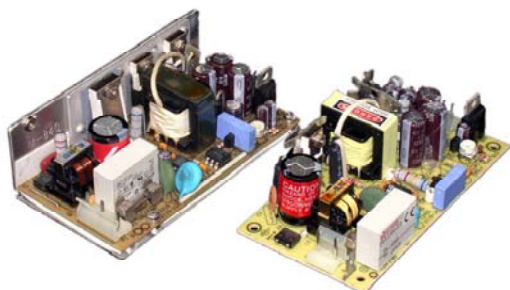


18595-PS

HiTRON/APS

UNIVERSAL INPUT AC-DC OPEN FRAME SINGLE & MULTI-OUTPUT 19-20 WATTS INTERNAL SWITCHING POWER SUPPLIES APS/HVI19-xx(L-B) SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT OPEN FRAME FORMAT
- MEET UNIVERSAL SAFETY STANDARDS
- EMI MEET CISPR PUB. 22 & FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Range typ. 90-264Vac.
Rating 100 to 240Vac.
Input Connector: Molex 5273(vertical).
Mating Connector: Molex 5195 or equivalent.
Input Frequency: 47-63Hz.
Inrush Current: Typ. 20A @ 230Vac.
Input Current: Typ. 0.70A @115Vac, 0.3A@230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet CISPR PUB. 22 & FCC Class B.
Hold-up Time: Typ. 40mS @115Vac, 150mS @230Vac.
Earth Leakage: Less than 0.3mA @230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: Molex 5273 or 41671.
Mating Connector: Molex 5195 or 3069.
Output Wattage: PCB 19 watts, L-Bracket 25 watts.
Line Regulation: Typ. 0.1%.
Load Regulation: Main VO1 typ. $\pm 1-2\%$
Aux. VO2 typ. $\pm 3-5\%$ (stacked on).
Aux. VO3 typ. $\pm 2-3\%$ (P.R.).
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in at Main VO1.
Adjustability: Available at Main VO1.
Overload Protection (OLP):
Fully protected against output overload and short circuit.
OLP set at about 125-150% rating output wattage.
Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 70%.
Switching Frequency: 40K Hz.
Circuit Topology: Free-running flyback circuit.
Transient Response: Output voltage returns in less than 3ms following a 25% load change.
Power Density: 1.26-1.58 Watts /Cubic Inch.
Operating Temperature: 0 to +50 °C.
Storage Temperature: -20 to +85 °C.
Temperature Coefficient: Typ. 0.04% / °C.
Cooling: Free air convection cooling.
Safety Standard: UL 60950-1/EN 60950-1 Class I.
Construction: PCB or L-Bracket format.

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



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

OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	MAIN VO1 @★		
	Typ.	Volt.	Max.
HVI19-10	4.0A	5V	5.0A
HVI19-10(L-B)	4.6A	5V	5.0A
HVI19-11	1.5A	12V	1.5A
HVI19-11(L-B)	2.0A	12V	2.5A
HVI19-12	1.2A	15V	1.3A
HVI19-12(L-B)	1.6A	15V	1.7A
HVI19-13	0.8A	24V	1.0A
HVI19-13(L-B)	1.0A	24V	1.2A

Symbol: "*" OVP built-in. "@" Adjustable.

Remark: (1) At least 20% of typical main output current is required to maintain stated regulation.

INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			SINGLE		SINGLE/DUAL/TRIPLE OUTPUT			
	AC-L	AC-N	AC-G	VO1	DC COM	VO1	VO2	VO3	DC COM
CONNECTOR or PIN#	P1-L	P1-N	P1-G	P2-3,4	P2-1,2	P2-2	P2-3	P2-4	P2-1

Mating connector: P1 Molex 5195 or 5239 series.

P2 Molex 5195, 5239 or 3069 series.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: L-B 223.0g(7.9 Oz.)

L-B FORMAT

