

HiTRON

UNIVERSAL INPUT AC-DC OPEN FRAME INTERNAL SWITCHING POWER SUPPLIES 50WATTS GREEN POWER SINGLE OUTPUT HICG50 SERIES



FEATURES:

- ACCOMMODATE UNIVERSAL AC SOURCES
- COMPACT 4"x2"x1"PCB FORMAT
- NO LOAD POWER CONSUMPTION <0.5W
- MEET UNIVERSAL SAFETY STANDARDS
- CONDUCTED/RADIATED 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: V-M connector.
Input Frequency: 47-63Hz.
Inrush Current: ≤12.0A rms at cold start 230Vac.
Input Current: Typ. 0.9A at 115Vac, 0.435A at 230Vac.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Conducted/Radiated Meet CISPR PUB. 22 & FCC Class B.
Hold-up Time: Typ. 14.2mS at 115Vac, 80.mS at 230Vac.
Earth Leakage: Less than 0.42mA at 230Vac.
No Load Power: Less than 0.5Watt.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: V-M connector.
Output Wattage: Typical 50 watts.
Line Regulation: Typical 0.1%.
Load Regulation: Main VO1 typical ±1.0%.
Noise & Ripple: Typical 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 125-150% of rating output power.
Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 85% (various with the output voltage)
Switching Frequency: 65K Hz.
Circuit Topology: Fixed frequency flyback circuit.
Transient Response: Output voltage returns in less than 0.5mS following a 50% load change.
Safety Standard: IEC 60950-1 Class I.
Operating Temperature: -20 to +50 °C at full load without forced air flow.
Storage Temperature: -25 to +85°C.
Cooling: Free air convection.
Construction: 4"x2"x1" PCB format.
Power Density: 6.25 Watts / Cubic Inch.

NOTE: (1) All measurements are at nominal input, full load, and +25°C unless otherwise specified.

(2) Load regulation is measured at 115Vac or 230Vac in percentage to indicate the change in output voltage as the load varied from half load to full load (±%).

(3) Due to requests in market and advances in technology, specifications subject to change without notice.



In application

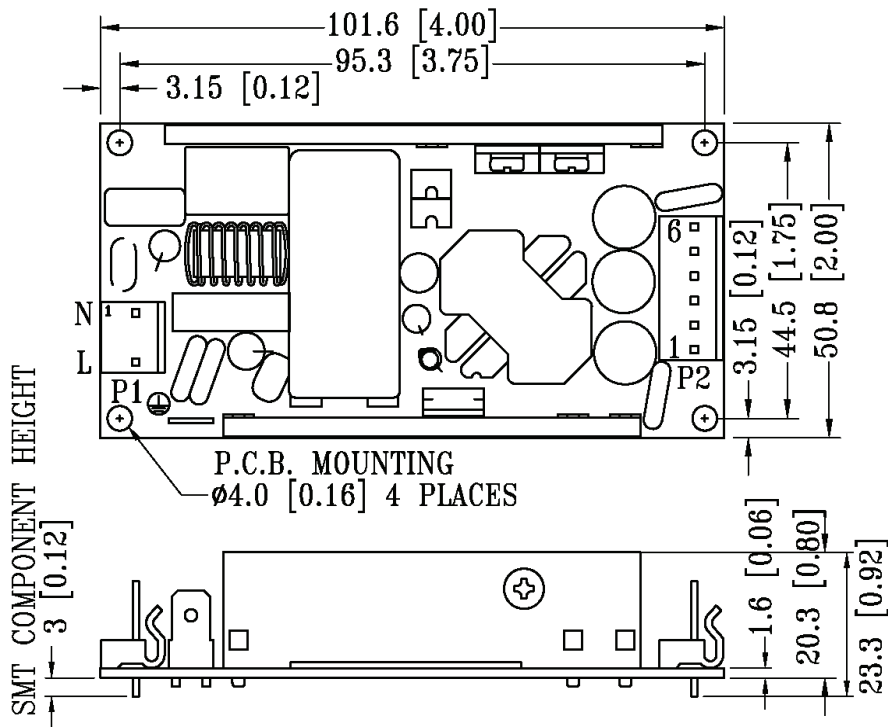
OUTPUT VOLTAGE / CURRENT RATINGS CHART

SINGLE OUTPUT

MODEL NO.	MAIN VO1 ★			
	Min.	Typ.	Volt.	Max.
HICG50-S033500	0.0A	5.00A	3.3V	5.00A
HICG50-S050500	0.0A	5.00A	5.0V	5.00A
HICG50-S120416	0.0A	4.16A	12.0V	4.16A
HICG50-S150340	0.0A	3.40A	15.0V	3.40A
HICG50-S240210	0.0A	2.10A	24.0V	2.10A
HICG50-S360140	0.0A	1.40A	36.0V	1.40A
HICG50-S480125	0.0A	1.25A	48.0V	1.25A

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 121g (4.27 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

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

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