

APS

Advanced Power Solutions

36-72VDC INPUT RANGE DC-DC CONVERTER MULTIPLE OUTPUT 45-50 WATTS INTERNAL SWITCHING POWER SUPPLIES APS46DC SERIES



FEATURES:

- LOW PROFILE & COMPACT SIZE
- 36-72VDC NOMINAL 48VDC INPUT
- EMI MEETS EN 55022 / FCC CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 36-72Vdc, nominal input 48Vdc
Input Connector: Terminal block
Power On Switch: Installed
Input Current: 1.2A @ nominal input 48Vdc
Dielectric Withstand: Meets IEC950 regulation
EMI: Meet EN55022 / FCC Class B
Overload Protection (OLP): Fully protected against output overload or short circuit
 Typical 120-150% Max. load.
 Consult the factory for special OLP setting

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Wattage: Typ. 46W continuous
Output Connector: Output cable
Line Regulation: Typ. 0.1-0.5%
Load Regulation: Main VO1 typ. ± 1.0 -2.0%
 Aux. VO2 typ. ± 2.0 -3.0%.(PR)
 Aux. VO3 typ ± 2.0 -3.0%.(PR)
Noise & Ripple: Typ. 1% peak to peak
OVP: Built-in at main VO1
Adjustability: Available at main VO1

GENERAL SPECIFICATION

Efficiency: Typ. 78%
Switching Frequency: 40 KHz
Circuit Topology: Fixed Frequency Flyback Circuit
Transient Response: Typ. 2 mS following a 25% load change
Safety Standard: UL1950 / Class I
Power Density: 2.06Watts / Cubic Inch

Operating Temperature: 0 to +50°C at full load,
 De-rating to half @ +70°C
Storage Temperature: -40°C to +85°C
Temperature Coefficient: $\pm 0.04\%/^{\circ}\text{C}$
Cooling: Convection cooling is adequate. Moving air is recommended for operating in a confined area
Construction: Metal box format

OUTPUT VOLTAGE/CURRENT RATINGS CHART

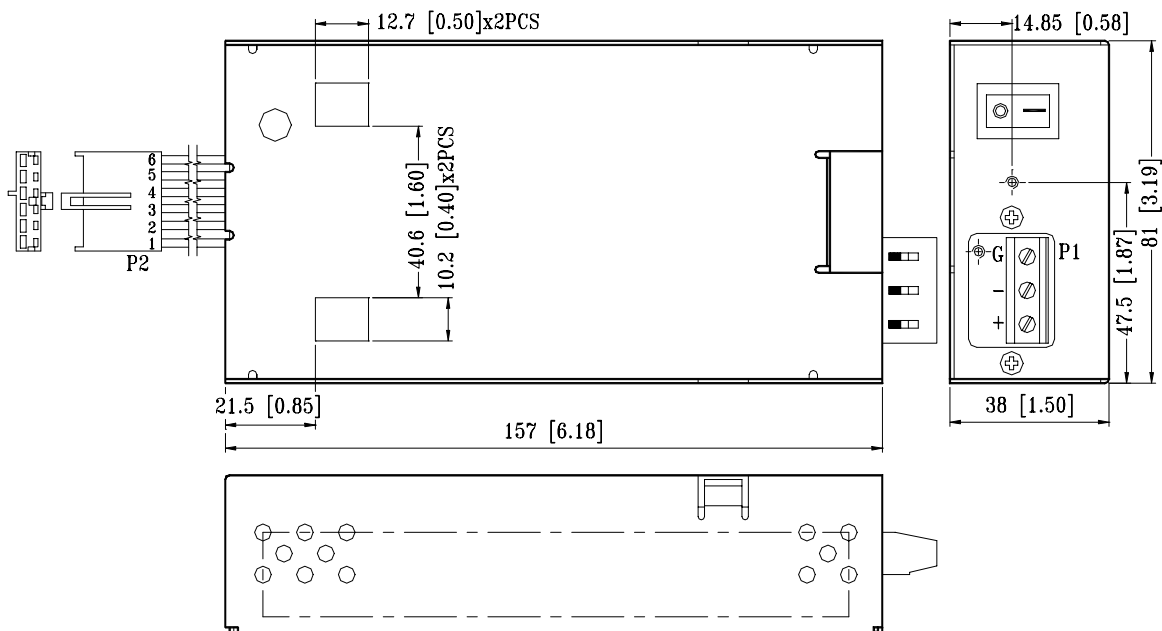
TRIPLE OUTPUT

MODEL NO.	MAIN VO1 @★			AUX. VO2●■			AUX. VO3 ●		
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.
APS46DC-48B-T050II	5.0A	+5.0V	7.0A	1.2A	+12V	1.5A	0.5A	-12V	0.6A
APS46DC-48B-T033EI	5.0A	+3.3V	6.0A	3.0A	+5V	3.5A	0.5A	-12V	0.6A

Symbol: "★" OVP built-in. "@" Adjustable. "■" Coupled common choke. "●" Installed with Post Regulator (PR).

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 607.0g (21.40 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	DC INPUT			TRIPLE OUTPUT			
	+Vin	-Vin	Gnd.	VO1	VO2	VO3	DC COM
CNTR & PIN #	P1-1	P1-2	GND	P2-3,4	P2-6	P2-1	P2-2,5