

APS

Advanced Power Solutions

UNIVERSAL INPUT HARMONIC CORRECTION AC-DC QUAD OUTPUT 90-100 WATTS INTERNAL ENCLOSURE SWITCHING POWER SUPPLIES APS91VP SERIES



FEATURES:

- ACCOMMODATES UNIVERSAL AC SOURCES
- MEETS IEC1000-3-2 HARMONIC CORRECTION
- +5V STAND-BY GREEN POWER
- MEETS UNIVERSAL SAFETY STANDARDS
- EMI MEETS CISPR PUB. 22 CLASS B
- CE MARKING COMPLIANCE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC
Input Connector: Input receptacle IEC320-3P
Input Frequency: 47-63Hz
Inrush Current: Typ. 32A @230Vac
Input Current: Typ. 1.34A/115Vac, 0.67A/230Vac
Dielectric Withstand: Meets IEC950
EMI: Meet CISPR PUB.22 Class B
Hold-up Time: Typ. 100ms @ 115Vac & 230Vac
Power Factor Correction: Meets Harmonic Correction per IEC1000-3-2.PF typ. 0.94-0.98
Remote On/Off: Installed
Earth Leakage: Less than 0.7 mA
Overload Protection (OLP): Fully protected against output overload and short circuit
 Consult the factory for OLP setting

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart
Output Current: See Ratings Chart
Output Connector: Cable connector
Output Wattage: Typ. 100Watts
Line Regulation: Typ. 0.1%
Load Regulation: Main VO1: Typ. $\pm 1\%$
 Aux.VO2: Typ. $\pm 1\%$ (MA)
 Aux.VO3: Typ. $\pm 2-3.0\%$ (Stacked)
 Aux.VO4: Typ. $\pm 2-3.0\%$ (PR)
 Stand-By O/P: Typ. $\pm 1\%$
Noise & Ripple: Typ. 1% peak to peak
OVP: Installed in VO1, VO2 & VO3 (Latch)
Adjustability: Available at VO1 & VO2
Power OK: Available for VO1 & VO2

GENERAL SPECIFICATION

Efficiency: Typ. 72-76%
Switching Frequency: Fixed frequency at 84KHz
Circuit Topology: PWM fixed frequency forward Circuit
Transient Response: Output voltage returns in less than 0.3ms following a 25% load change
Safety Standard: UL1950/EN60950 Class I

Operating Temperature: 0 to +50°C at full load
Storage Temperature: -20 to +85°C
Temperature Coefficient: Typ. 0.04% per °C
Cooling: Cooling fan installed inside
Construction: Enclosure metal box with fan format
Green Power with +5V/0.72A stand-by
Power Density: 2.60Watts. / Cubic Inch

OUTPUT VOLTAGE/CURRENT RATINGS CHART

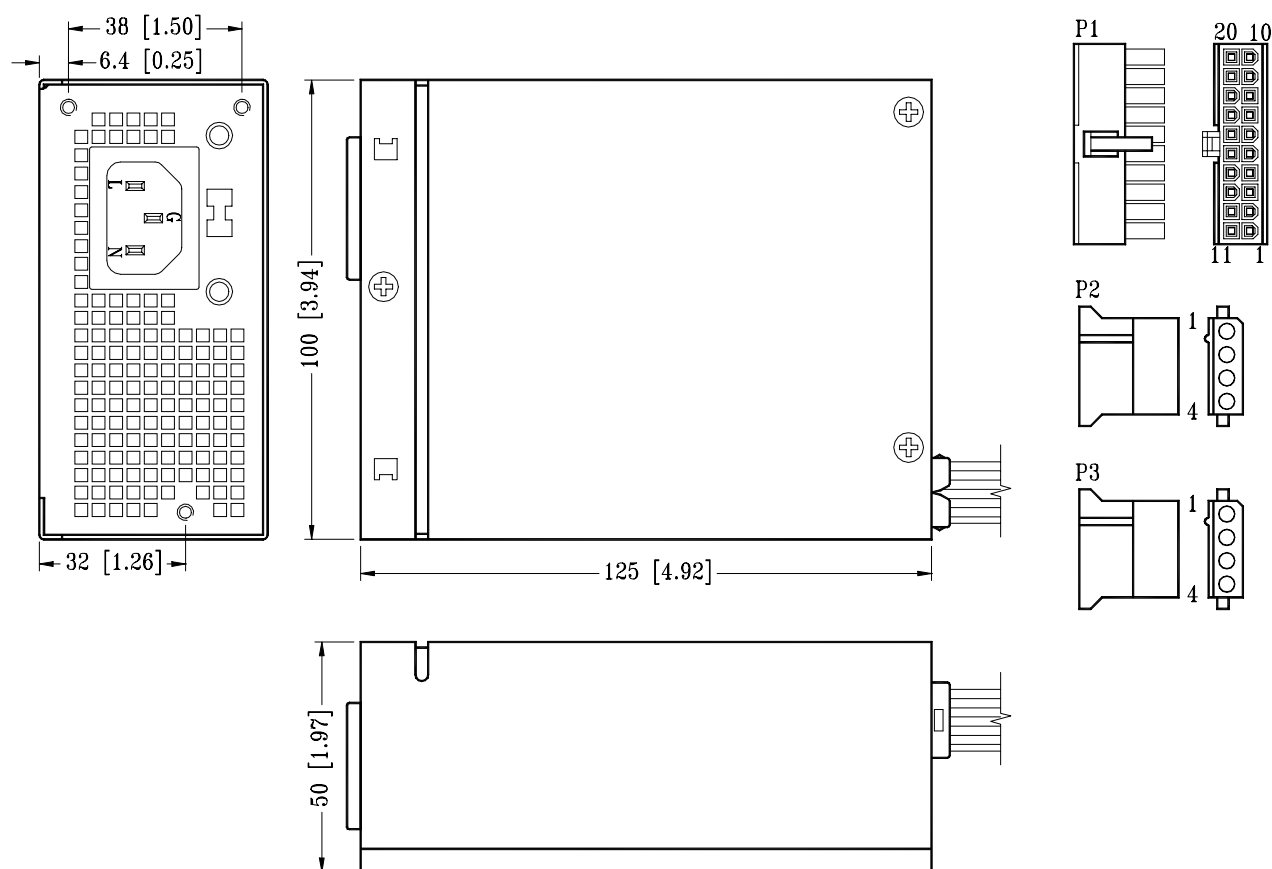
QUAD OUTPUT

MODEL NO.	MAIN VO1 •@			AUX. +VO2 ▲@			AUX. +VO3 ■†				AUX. +VO4 ●				Stand-By O/P
	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Typ.	Volt.	Max.	Pk.	Typ.	Volt.	Max.	Pk.	
APS91VP-Q050DII	12.0A	+5.0V	15.0A	8.0A	+3.3V	10.0A	1.5A	+12V	2.0A	2.5A	0.2A	-12V	1A	1.2A	+5V/0.72A
APS91VP-Q050DMI	12.0A	+5.0V	15.0A	8.0A	+3.3V	10.0A	0.7A	+12V	1.0A	1.2A	0.2A	-12V	1A	1.2A	+5V/0.72V
APS91VP-Q050DKK	12.0A	+5.0V	15.0A	8.0A	+3.3V	10.0A	1.4A	+15V	2.0A	2.5A	0.2A	-15V	1A	1.2A	+5V/0.72A

Symbol: "•" OVP built-in. "@@ Adjustable. "■" Couple common choke. "●" Post Regulator. "†" Stacked On.

MECHANICAL DIMENSIONS: MM [INCHES]

WEIGHT: 730.0g(22.3 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	AC INPUT			QUAD OUTPUT							
	AC-LINE	AC-NEUTRAL	AC-GROUND	VO1	VO2	VO3	VO4	Stand-by O/P	DC COM	P. OK	PS-ON
CNTR & PIN #	L	N	G	P1-4,6,19,20 P2-4,P3-4	P1-1,2,11	P1-10 P2-1,P3-1	P1-12	P1-9	P2-2,3 P3-2,3 P1-3,5,7,13,15,16,17	P1-8	P1-14