



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ADP Series Power Adapters

19V 40W/65W/90W

ADP 19V



Highlights & Features

- Energy Star Compliance (Level VI)
- IT safety approvals
- 100k Hours MTBF
- Over-Voltage/Load/Temperature & Short Circuit protections
- Low Leakage Current

Safety Standards



CB Certified for worldwide use

Model Information

ADP Series Power Adapters

Model Number	Input Voltage Range	Output Voltage	Output Current
ADP-40KD BBBM	90-264Vac	19Vdc	2.1A
ADP-65JH HBAN	90-264Vac	19Vdc	3.42A
ADP-90MD HDM	90-264Vac	19Vdc	4.74A

Specifications

Input Ratings / Characteristics

	ADP-40KD BBBM	ADP-65JH HBAN	ADP-90MD HDM
Nominal Input Voltage		100-240Vac	
Input Voltage Range		90-264Vac	
Nominal Input Frequency		50-60Hz	
Input Frequency Rang		47-63Hz	
Input Current	1.2A Max at 100Vac input voltage	1.5A Max at 100Vac input voltage	
Inrush Current Limit (cold start)		No Damage	
Efficiency at nominal input voltage	85%	84%	
Active Mode Efficiency @ 115Vac		>88%	
Active Mode Efficiency @ 230Vac	>85.30%	>87%	>88%
No Load Power Consumption	<0.1W @ 115Vac/60Hz , <0.3W @ 230Vac/50Hz	<0.21W @ 115Vac/60Hz	
Leakage Current	<100uA at 240Vac/50Hz	<50uA at 240Vac/50Hz	<75uA at 240Vac/50Hz

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Output Ratings / Characteristics

	ADP-40KD BBBM	ADP-65JH HBAN	ADP-90MD HDM
Rated Voltage	19V		
Voltage Range	18.05 ~ 19.95V		
Current	2.1A	3.42A	4.74A
Output Ripple and Noise	350 mV pk-pk	300mV pk-pk	380mV pk-pk
Turn On delay time	5 seconds @ 100-240Vac	2 seconds @ 100-240Vac	
Hold-up Time	The output voltage shall be sustained 5mS within regulation requirement after loss 100Vac and maximum load.		
Rise Time	DC output rise time from 10% to 90% of output voltage shall be less than 30mS at nominal line and maximum load	DC output rise time from 10% to 90% of output voltage shall be less than 100ms at nominal line and maximum load	
Transient Load Response	0.1A to 100% load at 2.5A/us slew rate and frequency is 10Hz to 10KHz		0% to 50% and 50% to 100% 1.0A/us slew rate and frequency is 100Hz

Environment

	ADP-40KD BBBM	ADP-65JH HBAN	ADP-90MD HDM
Operating Temperature	0 °C to +40 °C		
Shipping/Storage Temperature	-30 °C to +80 °C		-20 °C to +85 °C.
Operating Humidity	8% to 90% RH (Non-Condensing)		
Shipping/Storage Humidity	5% to 95% RH (Non-Condensing)		
Lightning Surge Immunity	IEC-1000-4-5 Level 3 Requirements L-N 1KV/1.2 * 50uS 5 times No damage	IEC-61000-4-5 Level 3 requirements L-N 1KV/1.2 * 50uS 5 times No function error L-FG 2KV/1.2 * 50uS 5 times No damage.	
Electric Fast Transients (EFT)	IEC-1000-4-4/1995 EN 61000-4-4		
Electrostatic Discharge (ESD)	±15KV air discharge ±8KV contact discharge		
Dielectric Withstand Voltage (HI-POT)	Between AC input and secondary AC 3KV test time 1 minute; 100% of line products of this Adapter shall be applied 3000Vac for 2 seconds between AC input terminals and output terminals. Cut off current 3mA.	Between AC input and secondary AC 3KV test time 1 minute; 100% of line products of this Adapter shall be applied 3000Vac for 2 seconds between AC input terminals and output terminals. Cut off current 10mA.	100% of line products of this Adapter shall be applied 3000Vac for 1 seconds between AC input terminals and output terminals. Cut off current is 10mA.
Insulation Resistance	The insulation resistance shall be not less than 30M ohms after application of 500Vdc/10mA for 1 minute.		The insulation resistance shall be not less than 20M ohms after application of 500Vdc/10mA for 1 minute
Electromagnetic Interference (EMI)	(a) FCC Class B (b) CISPR 22 Class B (c) VCCI Class B	(a) FCC Class B (b) CISPR 22 Class B (c) VCCI Class B	(a) FCC Class B (b) CISPR 22 Class B (c) VCCI Class B
MTBF	150,000 hours	100,000 hours	
Altitude	5,000m (16,400 ft)		

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Protections

	ADP-40KD BBBM	ADP-65JH HBAN	ADP-90MD HDM
Over Voltage	The output shall be protected to latch off at over-voltage condition, maximum value can't be over 29V.	The output shall be protected to latch off at over-voltage condition, maximum value can't be over 27V.	The output shall be protected to latch off at over-voltage condition, maximum value shall be more than 22V and be less than 27V.
Overload / Overcurrent	The maximum constant current shall be more than 2.1A and be less than 5.0A at 90Vac and 264Vac. The adaptor shall be auto-recovery.	The maximum constant current shall be more than 4.1A. The adapter shall be Auto-recovery	The minimum constant current shall be more than 5.214A. The maximum constant current shall be less than 6.636A. The output shall be protected to latch off at over-current condition.
Over Temperature	Latch Mode		
Short Circuit	Auto-Recovery		

Mechanical

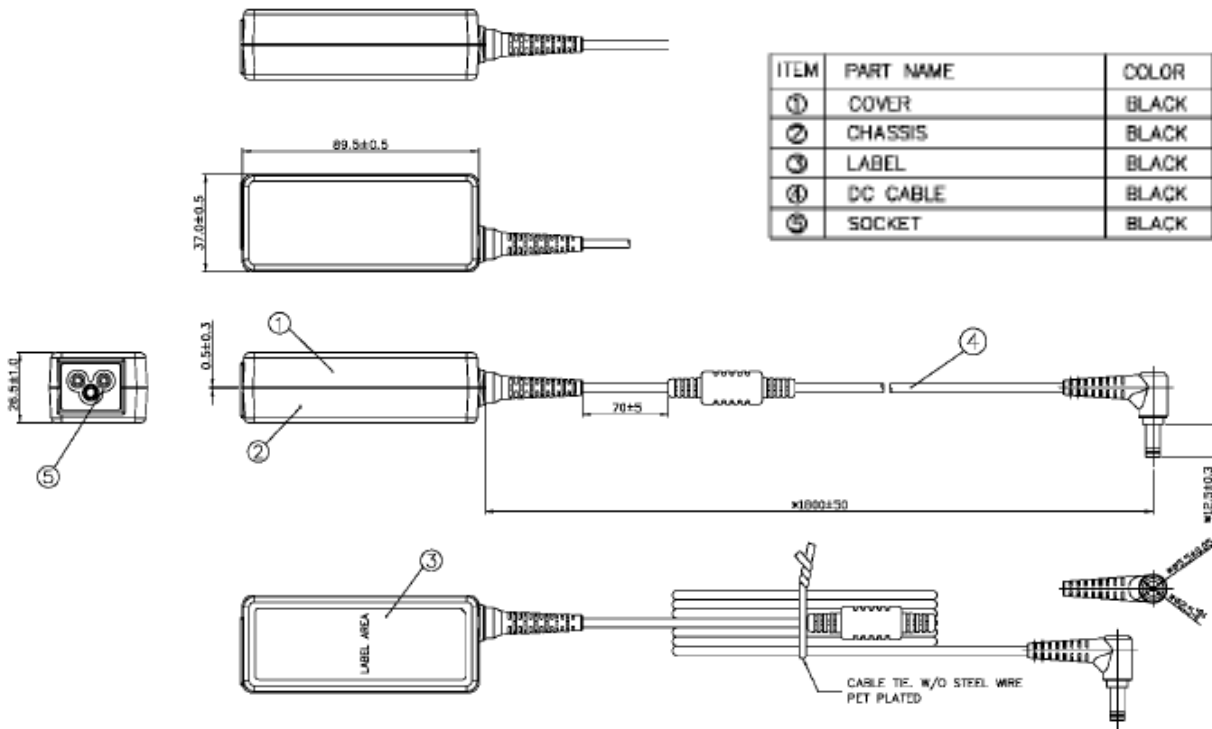
	ADP-40KD BBBM	ADP-65JH HBAN	ADP-90MD HDM
Color	Black		
Outline Dimensions (L x W x D)	89.5 * 37.0 * 26.5 mm 3.52 * 1.45 * 1.04 in	108.0 * 46.0 * 29.5 mm 4.25 * 1.81 * 1.16 in	127.0 * 51.0 * 30.5 mm 5.0 * 2.0 * 1.2 in
AC Inlet Type	Socket C6 type		
DC Cable Type	UL 1571 22AWG	UL1571 #AWG18	#AWG18
DC Cable Length	1800 mm		
DC Connector - OD	5.5 mm	5.5 mm	5.5 mm
DC Connector - ID	2.5 mm	2.5 mm	1.7 mm
DC Connector - Length	12.5 mm	11 mm	11 mm

ADP Series Power Adapters

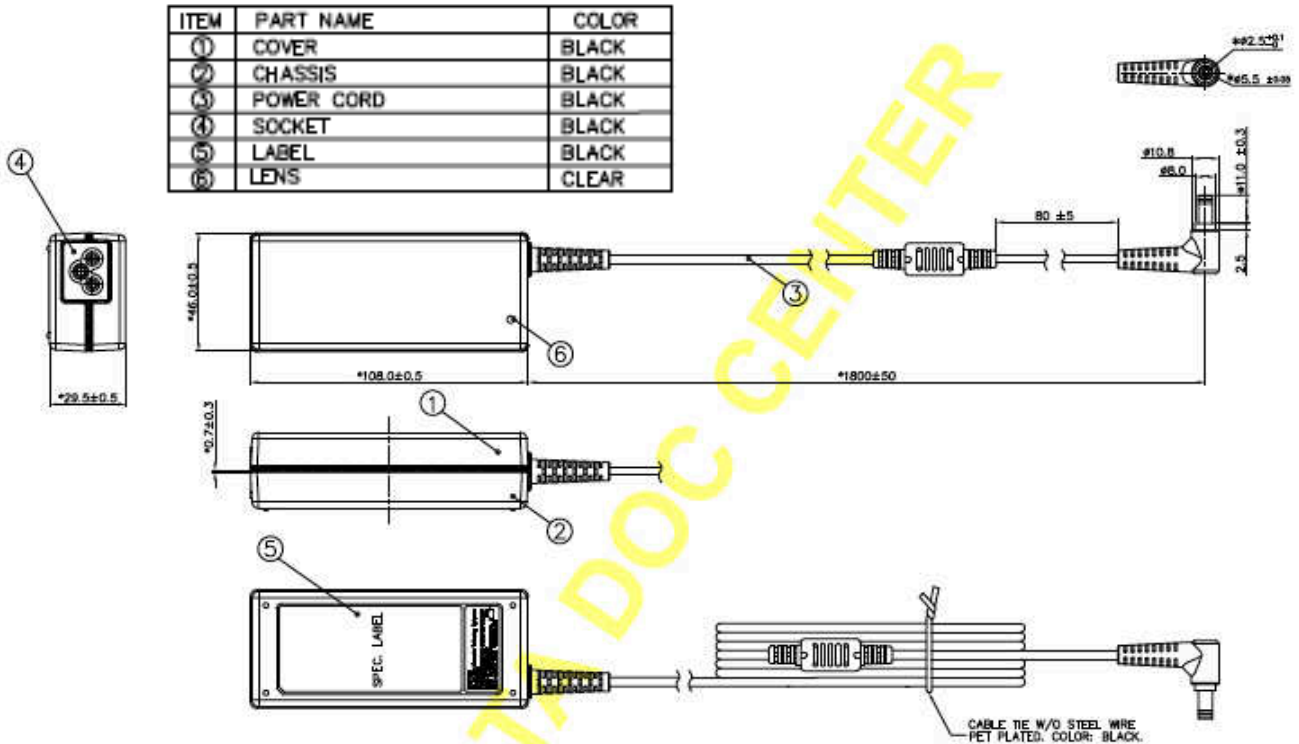
19V 40W/65W/90W

Mechanical

ADP-40KD BBM



ADP-65JH HBAN



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ADP-90MD HDM

