



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

12V 25W/36W/66W

ADP 12V

Highlights & Features

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



Model Information

ADP Series Power Adapters

Model Number	Input Voltage Range	Output Voltage	Output Current
ADP-25FW BB	90-264Vac	12Vdc	2.1A
ADP-36PH BH	90-264Vac	12Vdc	3A
ADP-66CR BE	90-264Vac	12Vdc	5.5A

Specifications

Input Ratings / Characteristics

	25W	36W	66W
Nominal Input Voltage	115/230Vac	100-240Vac	115/230Vac
Input Voltage Range	90-264 Vac		
Nominal Input Frequency	50-60Hz		
Input Frequency Range	47-63Hz		
Input Current	1A Max @ 100Vac 600mA @ 240Vac	1A Max at 100Vac input voltage	2A Max at 100Vac input voltage
Inrush Current(Cold Start)	<50A at 120VAC	No Damage at 240Vac	<90A at 230Vac
Efficiency at nominal input voltage	86% @ 115Vac	84% min, max load and measured at the end of DC cable.	83%
Active Mode Efficiency @ 115Vac	86.38%	>87.4%	88%
Active Mode Efficiency @ 230Vac	N/A	>84.78	88%
No Load Power Consumption	<0.1W @ 115Vac	<0.1W @ 115Vac/60Hz and 230Vac/50Hz	0.21w
Hold Up Time at maximum load	>16.7milliseconds@115Vac >20 milliseconds@230Vac	5milliseconds@100Vac	10milliseconds minimum at 100Vac/50Hz.

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Output Ratings / Characteristics

	25W	36W	66W
Rated Voltage	12V		
Voltage Range(All Models)	11.4 ~ 12.6V		
Current	0-2.1A	0-3A	0-5.5A
Output Ripple and Noise @20MHz. BW, with 0.1uF ceramic and 47uF Electrolytic Caps connected parallel to load.	<120mVp-p	450mV pk-pk	120mV pk-pk
Turn On delay time	2 seconds @ 120Vac	5 seconds @ 100-240Vac	3 seconds @ 90Vac/60Hz and -0°C to +45°C; OR 10 seconds at -20°C to 0°C.
Rise Time	<20ms	30mS	30ms
Max Load Capacitance (microfarads)	1000	470	1000
Load Transient Response	0%-50%-0% and 50%-100%-50% of full nominal load. frequency is 60Hz, 50% duty cycle and the slew rate shall be at 0.02A/us.	0.1~1.5A & 1.5A~3A load at 2.5A/us slew rate , 50% Duty cycle , Frequency be operated 100Hz ~ 10KHz	25 % step load change at 1 A/s.at frequency 500Hz with 50% duty.

Environment, EMI and Immunity

	25W	36W	66W
Operating Temperature	0 °C to +40 °C		-20 °C to +45 °C
Shipping/Storage Temperature	-20 °C to +75 °C	-30 °C to +80 °C	-40 °C to +85 °C
Operating Humidity	Up to 95%	8% to 90% RH (Non-Condensing)	10% to 95% RH (Non-Condensing)
Shipping/Storage Humidity	5% to 95% RH (Non-Condensing)		10-95% RH (Non-Condensing)
Operating Altitude	Maximum of 3700 meters (12000 feet)	Maximum of 5000 meters	-150 to 3000 meters (-500 to 10000 feet)
Lightning Surge Immunity Per IEC-1000-4-5	L-N, L-G, N-G, IEEE C62.41.2, 0.5 μs – 100 kHz Ring Wave, 1.2/50 μs - 8/20 μs Combination Wave 6KV, Criterion B	Line –Neutral 1KV/1.2 * 50us Level 3 Criteria A	L-N, L-G, N-G Combination Wave 6KV, Criterion B
Electric Fast Transients (EFT)	EN61000-4-4 +/-1kV on input power lines; Criterion B	IEC-1000-4-4/1995 (EN 61000-4-4) Level 3 requirements	EN61000-4-4 +/-1kV on input power lines; Criterion B
Electrostatic Discharge (ESD) Per IEC-61000-4-2	Contact discharge : ±8KV Air discharge : ±15KV	+/-8kV air discharge; +/-6kV contact discharge;	
Dielectric Withstand Voltage (HI-POT)	3KV AC RMS from AC Input to Output		
Leakage Current	<250uA at 264 Vac	<100uA at 240Vac/50Hz	<250uA at 264 Vac
Insulation Resistance	The insulation resistance shall be not less than 4M ohms after application of 500Vdc/10mA for 1 minute.	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 10M ohms after application of 500Vdc/10mA for 1 minute.
Electromagnetic Interference (EMI)	CISPR 22/EN55022 Class B.	(a) FCC Class B (b) CISPR 22 Class B (c) VCCI Class B	CISPR 22 : 1997/EN55022(1998) Class B.
MTBF	200,000 hours of continuous operation at 25°C	80,000 hours of continuous operation at 25°C	150,000 hours of operation at 90% confidence level at 25degC
Electrolytic Capacitor Operating Life	7 years at 115VAC, 40C and 100% rated load	3 years at 115 Vac and 230 Vac, and 25degC 100% rated load	5 years at 115 Vac and 230 Vac, and 25degC 100% rated load

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Protections

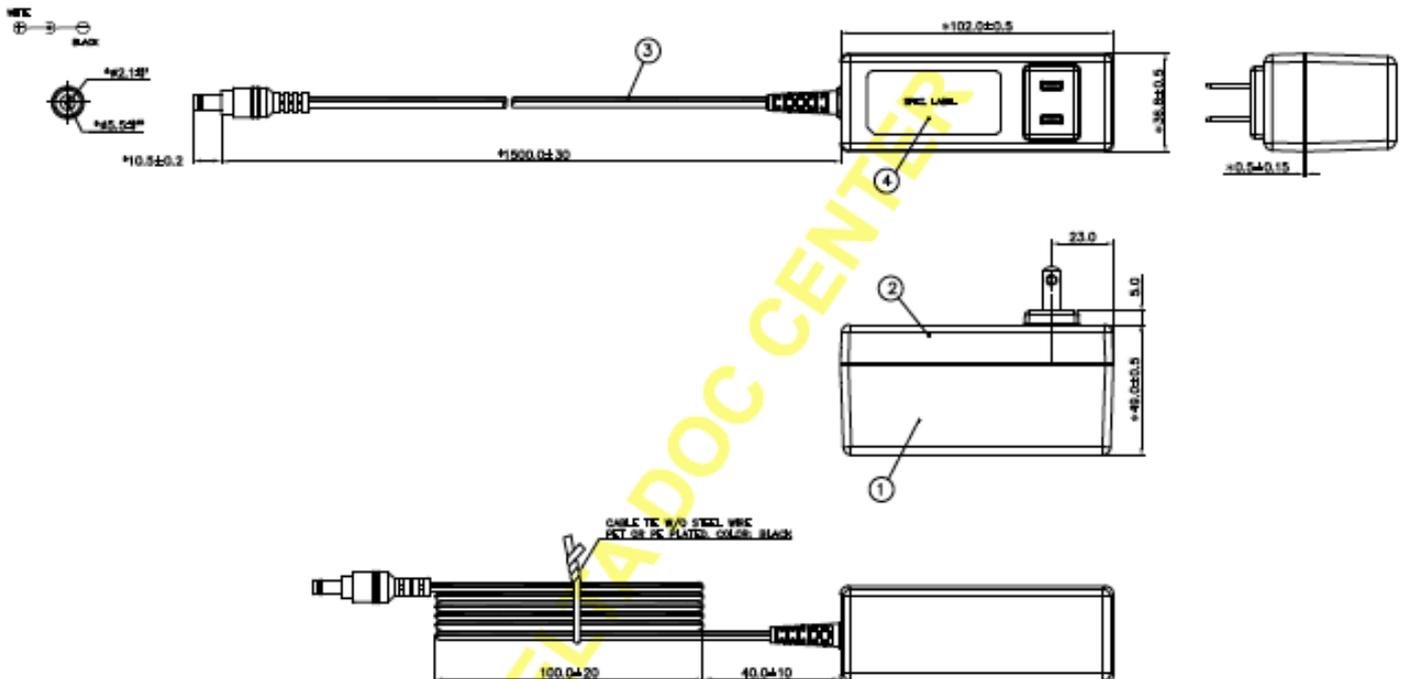
	25W	36W	66W
Overvoltage	<150% of nominal output voltage (Recovery mode)	Latch Mode	Latch Mode
Overload / Overcurrent	<150% maximum load current (Recovery mode)	Auto-Recovery	Auto-Recovery
Over Temperature	Recovery mode	Latch Mode	Auto-Recovery
Short Circuit	Recovery mode	Auto-Recovery	Auto-Recovery

Mechanical

	25W	36W	66W
Color	Black		
Outline Dimensions (L x W x D)	102 * 36.8 * 49 mm	89.5.0 * 37.0 * 26.5 mm	132 * 62 * 34.1 mm
AC Inlet Type	Fixed 2 pin AC Blades	Socket C6 type	Socket C14 Type
DC Cable Type	UL2468 #AWG20	UL1571 #AWG17	UL1571 #AWG14
DC Cable Length	1500 mm	1800 mm	1500 mm
DC Connector - OD	2.1 mm	4.75 mm	2.5 mm
DC Connector - ID	5.5 mm	1.7 mm	5.5 mm
DC Connector - Length	10.5 mm	12.5 mm	9.5 mm

Mechanical

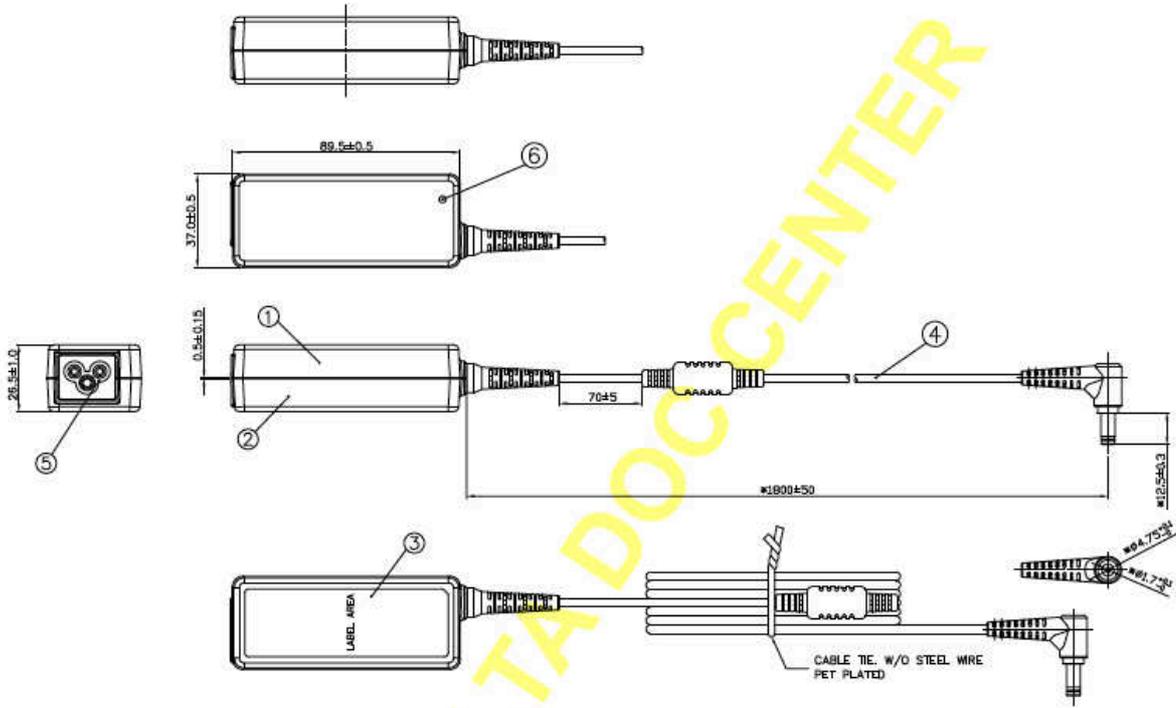
ADP-25FW BB



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ADP-36PH BH



ADP-66CR BE

