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 | 36 | W | 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-Con | idensing) 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 | I EC-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 : ±15 | ±8KV +/-8kV air | | discharge; +/-6kV contact discharge; | |
| Dielectric Withstand Voltage (HI-POT) | 3К | 3KV AC RMS from AC Input to Output | | tput | |
| 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

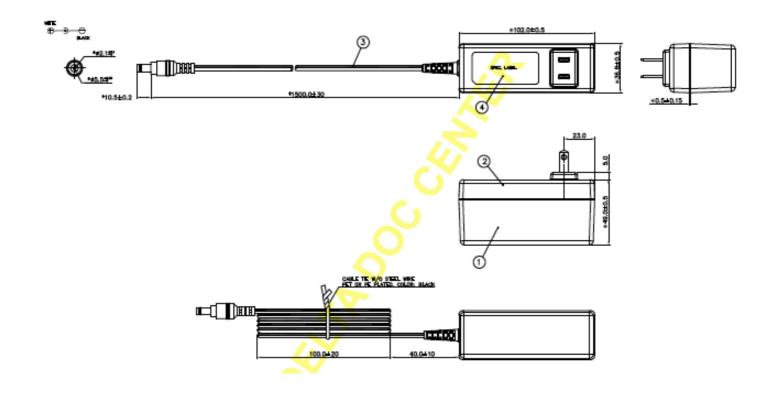
| | 25W | 36W | 66W | |
|------------------------|---|---------------|---------------|--|
| Overvoltage | <150% of nominal output voltage (Recovery mode) | Latch Mode | Latch Mode | |
| Overload / Overcurrent | <150% maximum load current (Recovery mode) | Auto-Recovery | Auto-Recovery | |
| Over Temperature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

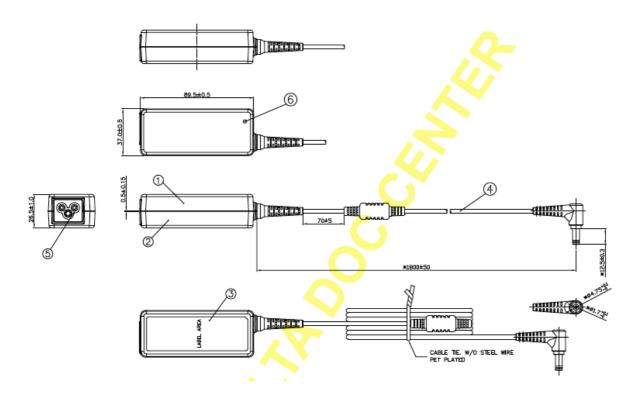
Mechanical

ADP-25FW BB



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ADP-36PH BH



ADP-66CR BE

