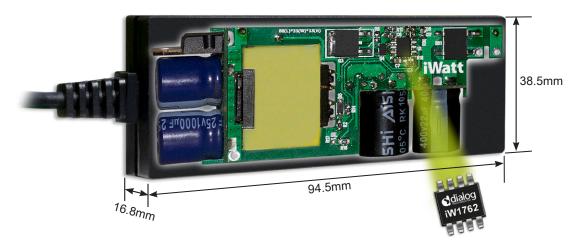


PrimAccurate[™] Digital AC/DC ICs Enable the Smallest Ultrabook[™] Power Adapters

Ultra-Slim Adapters

- ► 45W adapter is less than 17mm thick
- ► 12W travel adapter fits easily in your pocket
- Ultra Light
- Ultra Green
- Ultra Convenient

45W Ultra-Slim Ultrabook Adapter



- ► Up to 1/3rd the size of typical 45W power adapters
- ► 94.5mm x 38.5mm x 16.8mm
- ► Supports Intel® Turbo Boost Technology with 82W peak power capability

Pocket Size 12W Ultrabook Travel Adapter



- ► Charge overnight in under 5 hours!
- ► 65mm x 63mm x 13mm
- ► Compact pocket size!



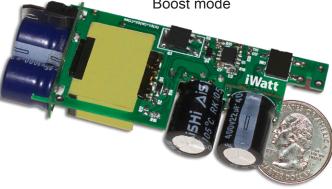


PrimAccurate™ Control Reduces Size, Lowers BOM Cost

Dialog's ultra-low standby power AC/DC PWM controllers are designed with patented PrimAccurate™ primary-side control. This unique technology uses proprietary digital algorithms to eliminate the need for a secondary side regulator and opto-isolator, lowering the total BOM cost, reducing the overall solution size, and improving reliability. PrimAccurate technology enables accurate control of the output over a wide range of operating conditions and ensures tight load and line regulation, along with full protection from fault conditions, without costly additional components.

45W Ultra-Slim Power Adapter Reference Design

- ► Board dimensions: 88mm x 33mm x 13mm
- ► 45W average power, 82W peak power at 10% duty cycle supports Intel Turbo Boost mode



- ► No-load power consumption < 100mW exceeds U.S. DoE requirements
- ► Meets U.S. DoE active average efficiency requirement for AC/DC power adapters
- Rugged solution iW1762 PrimAccurate technology eliminates opto-isolator for improved line-voltage surge protection
- ► Easily meets output ripple voltage requirements ≤ 380mV_{PP} across all load/line conditions

12W Ultrabook Travel Adapter Reference Design



- ► Board dimensions: 40mm x 22mm x 12mm*
- ► 12W average power, 82W peak power at 2% duty cycle supports Intel Turbo Boost mode
- No-load power consumption < 50mW exceeds
 U.S. DoE requirements ultra green
- Rugged solution iW1760 PrimAccurate technology eliminates opto-isolator for improved line-voltage surge protection
- ► Charges a typical Ultrabook in under 5 hours
- * 12mm is height of 12W reference design board. Height of board used in actual pocket-size adapter is 9.5mm.

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