

# DATA SHEET NBS160A

Desktop 3-pin AC adapter 120-160W



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## SUMMARY

Latest generation switch mode power supply (SMPS) designed by NetBit for the latest CPE and POE product applications for high volume deployment in North America and Europe.

## USER BENEFITS

- Compact size – designed to maximise shipping efficiency and reduce total transportation costs
- High efficiency – optimized to meet latest energy efficiency standards for lower total power consumption
- CPE & POE ready – built to meet and exceed the operating requirements for all CPE and POE applications and installations
- Reliable – engineered to high standards to give a long and reliable service for operators and end users

## APPLICATIONS

- Advanced STBs, DVRs/PVRs, home media servers
- Advanced data routers and gateways: DSL, DOCSIS 3.0/3.1, 10G
- Smart/connected AV devices, smart audio speakers/sound bars

## AC INPUT

Rated input voltage: 100-120 / 100-240 / 200-240VAC  
Operating range: 90-135 / 90-264 / 195-264VAC  
Desktop: C8, C6  
Inrush current: <120A  
No load power consumption:  $\leq 0.15W$

## DC OUTPUT

Output voltage current: 0.05-10.0A, 160W max  
Output voltage: 12-14V, 24-27V or 48-54V  
Load/line regulation: +/- 5%  
OVP: custom  
OCP: 120-150%  
Hold-up time:  $\geq 10ms$   
Turn on delay: <3s  
Overshoot / undershoot:  $\leq 10\%$   
Audible noise: <18dBA at 600mm  
Ripple: <1% of  $V_o$

## OPERATIONAL

Operating temperature range: 0-40°C  
Altitude: 0 – 5,000m operational, 0 – 12,000m non-op  
Humidity: 0 – 95% operational and non-op

## MECHANICALS

Color: custom  
DC plug size: custom  
DC cable length: custom  
LED: optional

## RELIABILITY

MTBF: >100,000 hours per Telcordia SR332  
E-Cap lifetime: >5 years @ 40°C, 80% load  
Derating standard: IPC-9592B Class I

## REGULATORY COMPLIANCE

EMI: CE + RE: EN 55032 Class B  
ESD: EN 61000-4-2 15kV air / 8kV contact  
Surge immunity: ITUK.21 4kV

## SHIPPING & PACKAGING

Approx. weight: 650g  
Carton quantity: 18pcs  
Pallet quantity: 504pcs  
Full container load 20'GP: 5,400pcs

## CERTIFICATIONS

Safety: IEC 62368-1, UL, CE, EAC, RCM, KC, BIS  
EMI: EN 55032, FCC  
Efficiency: 89% minimum  
Environmental: RoHS compliant

## CASE DIMENSIONS

Desktop  
Width: 73mm  
Height: 40mm  
Length: 170mm



## OPTIONAL CPE ENHANCEMENTS

This PSU design can be customized to meet the exact needs of your application or design including and not limited to:

- Customized output voltage
- Customized transient peak power
- Custom labelling or branding

Please contact our sales team to discuss your exact needs.

For more information on NetBit products, please visit our website - [www.netbit.com](http://www.netbit.com)