

DATA SHEET NBS300A2401250B3

Desktop 3-pin AC adapter 300W



SUMMARY

Latest generation switch mode power supply (SMPS) designed by NetBit for the latest CPE product applications for high volume deployment globally.

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 ready – built to meet and exceed the operating requirements for all CPE 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
- Entire home control units

AC INPUT

Rated input voltage: 100-120 / 100-240 / 200-240VAC
Operating range: 90-135 / 90-264 / 195-264VAC
Desktop: C6, C14
Inrush current: <100A
No load power consumption: $\leq 0.50\text{W}$

DC OUTPUT

Output voltage current: 0.05-20.0A, 300W max
Output voltage: 12-14, 24-27 or 48-54V
Load/line regulation: $\pm 5\%$
OVP: custom
OCP: 110-150%
Hold-up time: $\geq 5\text{ms}$
Turn on delay: $< 3\text{s}$
Overshoot / undershoot: $\leq 10\%$
Audible noise: $< 20\text{dBA}$ at 600mm
Ripple: $< 2\%$ 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 @ 25°C, 100% 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: ITU K.21 2kV

SHIPPING & PACKAGING

Approx. weight: 1030g
Carton quantity: 8pcs
Pallet quantity: 400pcs
Full container load 20'GP: 4,000pcs

CERTIFICATIONS

Safety: IEC 62368-1, UL, CE, EAC, RCM, KC, BIS
EMI: EN 55032, FCC
Efficiency: 87.5% min
Environmental: RoHS compliant

CASE DIMENSIONS

Desktop
Width: 100mm
Height: 42mm
Length: 200mm



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